

SERVICE MANUAL

LA-1 CHASSIS

MODEL

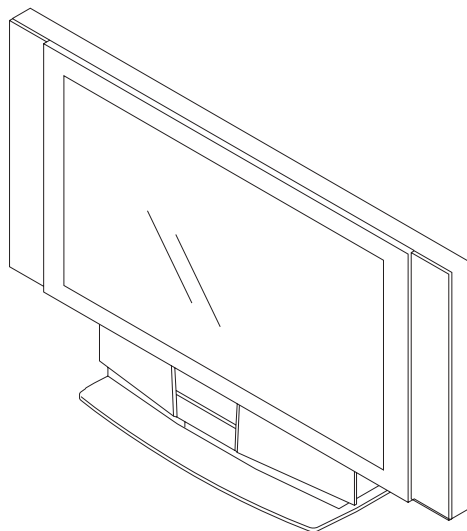
COMMANDER DEST.

KF-60DX100

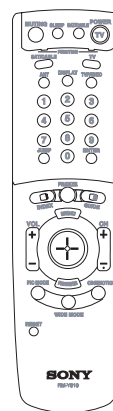
RM-Y910 US

KF-60DX100

RM-Y910 Canadian



KF-60DX100



RM-Y910

LCD PROJECTION TV
SONY®

SPECIFICATIONS

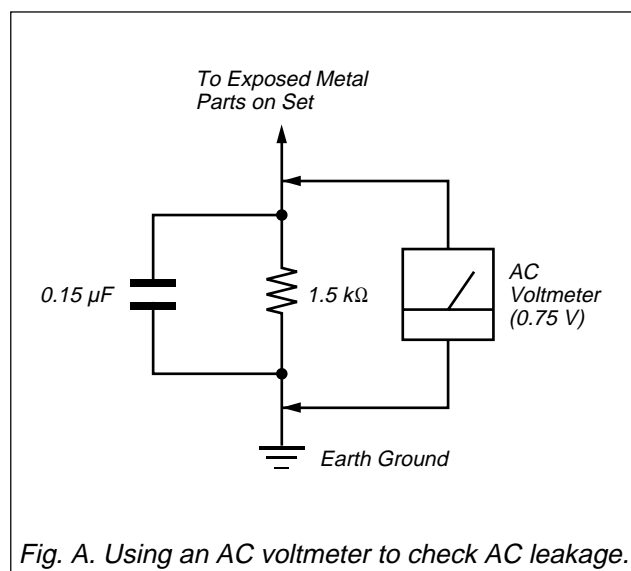
Projection System	3 LCD Panels, 1 lens projection system	
LCD Panel	1.35 inch TFT LCD panel Approx. 3.15 million dots (1,049,088 pixels)	
Projection Lens	High Performance, large diameter hybrid lens F2.4	
Antenna	75 ohm external terminal for VHF/UHF	
Lamp	UHP lamp, 100W XL-2000U	
Television System	NTSC, American TV Standard	
Screen Size (measured diagonally)	60 inches	
Channel Coverage		
VHF	2-13	
UHF	14-69	
CATV	1-125	
Power Requirements	120V, 60 Hz	
Number of Inputs/Outputs		
Video (IN)	4	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	6	500 mVrms (100% modulation) Impedance: 47 kilohms
AUDIO (VAR/FIX)	1	500 mVrms at the maximum volume setting (Variable) 500 mVrms (Fixed) Impedance (output): 2 kilohms
TV Out	1	Video: 1 Vp-p 75 ohms unbalanced, Sync negative Audio: 500 mVrms (100% modulation) Impedance (output): 1 kilohms
CONTROL S (IN/OUT)	1	minijacks
Component Video Input	2 (Y, P _B , P _R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative P _B : 0.7 Vp-p, 75 ohms P _R : 0.7 Vp-p, 75 ohms
RF Inputs	2	
Converter	1	
Speaker Output	15 W × 2	
Dimensions (W × H × D)	1,618 × 1,103 × 542 mm (63 3/4 × 43 1/2 × 21 3/8 inches)	
Mass	63 kg (138 lb 14 oz)	
Power Consumption		
In Use	220 W	
In Standby	Under 1 W	
Supplied Accessories		
Remote Control	RM-Y910	
AA Batteries	2 supplied for remote control	
Cleaning Cloth	1	
Optional Accessories		
TV Stand	SU-60DX	
Lamp	XL-2000U	
AV Cable	VMC-810/820/830 HG	
Audio Cable	RKC-515HG	
Control S Cable	RK-G69HG	
Component Video Cable	VMC-10/30 HG	
AV Receiver	STR-V555ES or equivalent	

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna’s replacement.
8. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60 – 100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

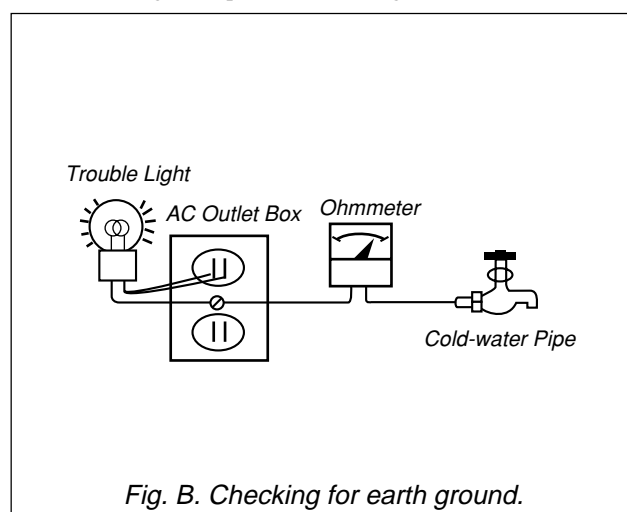


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WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.


SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1

SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the TIMER/STAND BY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the TIMER/STAND BY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. Diagnosis Items and Prediction of Malfunction Location

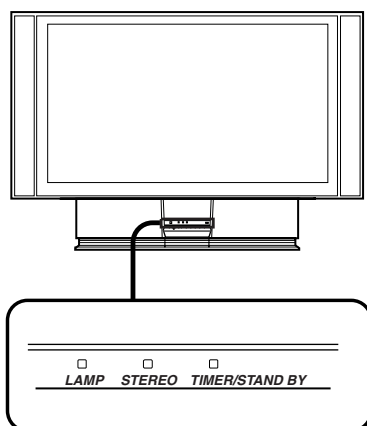
- When a malfunction occurs the TIMER/STAND BY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display “0” means that no malfunctions occurred.

Diagnosis Item	No. of times TIMER/STAND BY indicator blinks	Probable Cause Location	Detected symptoms
Power does not turn on	0	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out (F1601) (G board) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the unit. • AC power supply is faulty.
Lamp cover error	3 times	• Lamp cover is not attached securely.	• No picture/No sound
FAN stopped	4 times	<ul style="list-style-type: none"> • FAN1 or FAN2 power is not supplied. (A board) • FAN connector is not attached securely. 	• No picture/No sound
Lamp driver error	5 times	• Lamp driver is faulty.	• No picture/No sound
Low B error	6 times	• +5 V is not supplied. (G board)	• No picture/No sound
Audio error	9 times	<ul style="list-style-type: none"> • Audio ± 15 V line is shorted. (A, G board) • IC1203 or IC1204 is faulty. (A board) • PS1601 or 1602 is opened. (G board) 	• No picture/No sound
Lamp error	LAMP LED flashes	• Lamp for the light source burns out.	• No picture/No sound

3. Blinking count display of TIMER/STAND BY indicator

* One blink is not used for self-diagnosis.

•EXAMPLE



<Diagnosis Items> <Number of Blinks>

- Lamp Cover
- FAN

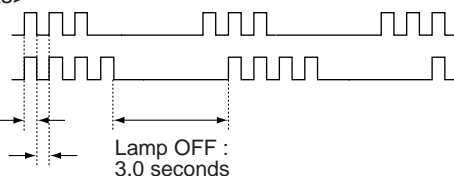
3 times

4 times

Lamp ON : 0.3 seconds

Lamp OFF : 0.3 seconds

Lamp OFF :
3.0 seconds



Release of TIMER/STAND BY indicator blinking.

- The TIMER/STAND BY indicator blinking display is released by removing the plug from the power or leaving for 2 minutes.

4. Self-Diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

- Quickly press the remote command button in the following order from the standby state.

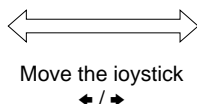
DISPLAY ➡ Channel 5 ➡ VOL - ➡ POWER



Be aware that this differs from the method of entering the service mode (volume +).

Self-Diagnosis screen display MAIN

Self Diagnosis	
6: Low B	0
9: AUDIO	1
101: WDT	0



LCD ENGINE

SELF DIAGNOSIS	
1: LAMP	1
3: LAMP COVER	0
4: FAN	0
5: LAMP DRIVER	0
201: WDT-ENGINE	0

← Numeral "1" means a fault was detected one time or more.

← Numeral "0" means that no fault was detected.

5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to "0".
- If the results display is not returned to "0" it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

- Power off (Set to the standby mode)
- DISPLAY ➡ Channel 5 ➡ VOL + ➡ POWER (Service Mode)
- Channel 8 ➡ ENTER (Test reset = Factory preset condition)

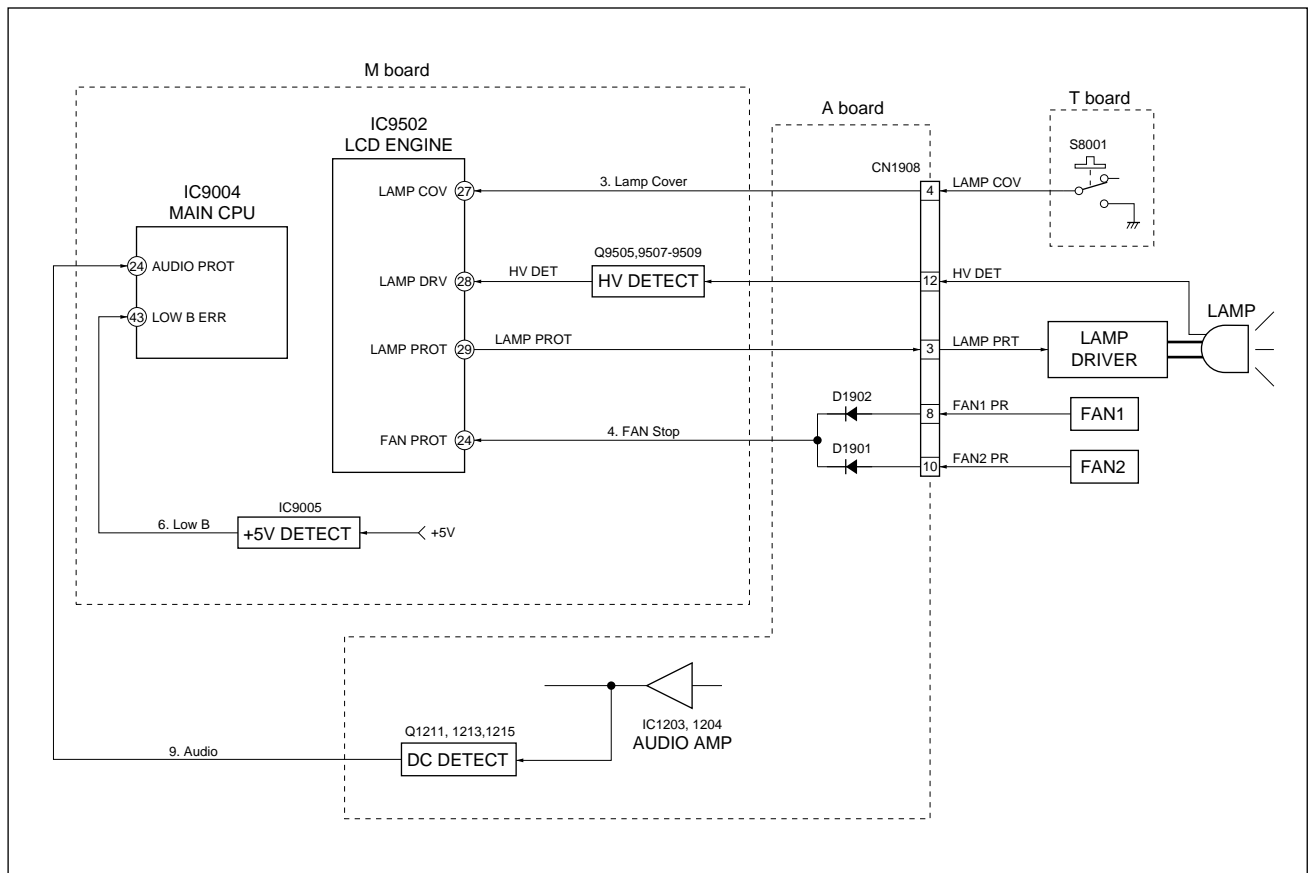
<Method of Ending Self-Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

6. Self-Diagnosis function operation

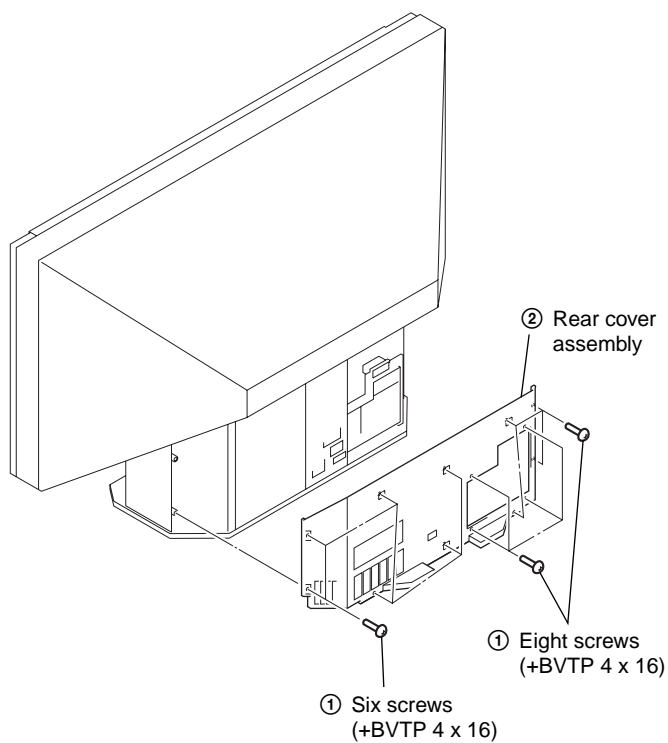
- 3 : Lamp Cover When lamp cover SW is opened then pin ④ of CN1908 on the A board is high, LCD Engine μ -com (IC9502) detects it and make turn off the lamp.
- 4 : FAN Stop When FAN1 or FAN2 is stopped then pin ⑧ or ⑩ of CN1908 on the A board is high, LCD Engine μ -com (IC9502) detects it and make turn off the lamp.
- 5 : Lamp Driver When lamp is not turned on then pin ②⑨ of LCD Engine μ -com (IC9502) is high, checks pin ②⑧ of LCD Engine μ -com . If pin ②⑧ is low, it is judged no High Voltage.
- 6 : Low B Detect +5 V line failure.
- 9 : Audio When DC is appeared by audio amp failure at speaker line.
Then it is detected by MAIN μ -com (IC9004) and it turns off the main power.
- LAMP : Lamp error When lamp is not turned on then pin ②⑨ of LCD Engine μ -com (IC9502) is high, checks pin ②⑧ of LCD Engine μ -com. If pin ②⑧ is high, it is judged lamp is burned out.

Self-Diagnosis block diagram

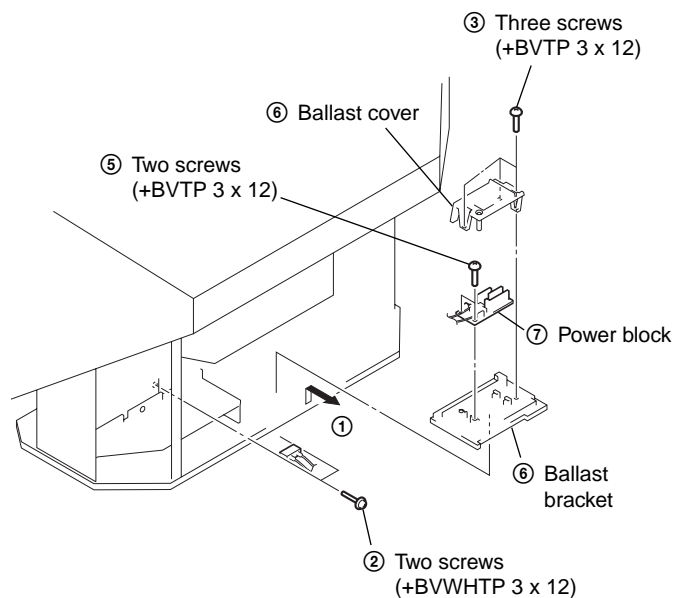


SECTION 2 DISASSEMBLY

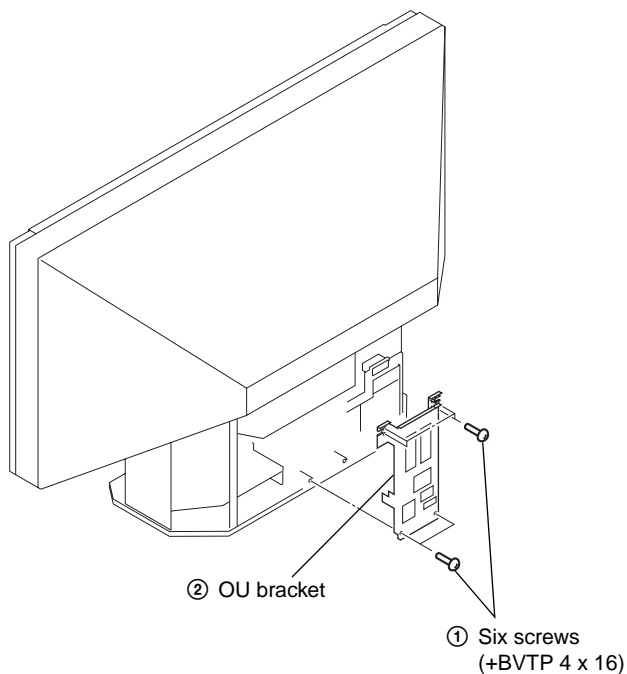
2-1. REAR COVER ASSEMBLY



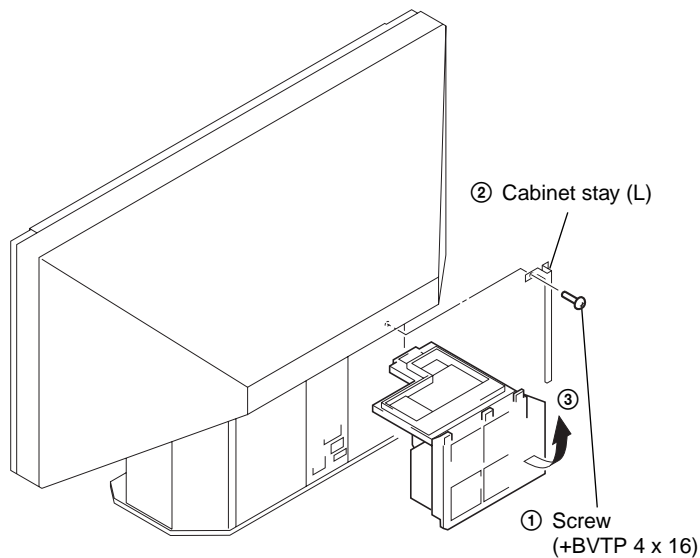
2-3. POWER BLOCK REMOVAL



2-2. OU BRACKET REMOVAL



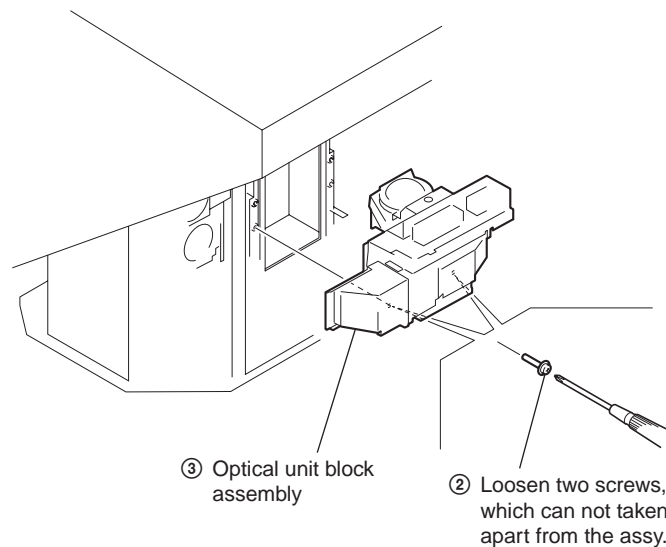
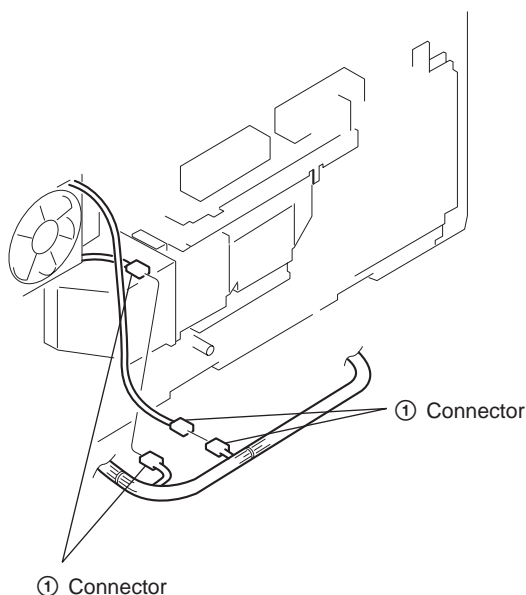
2-4. SERVICE POSITION



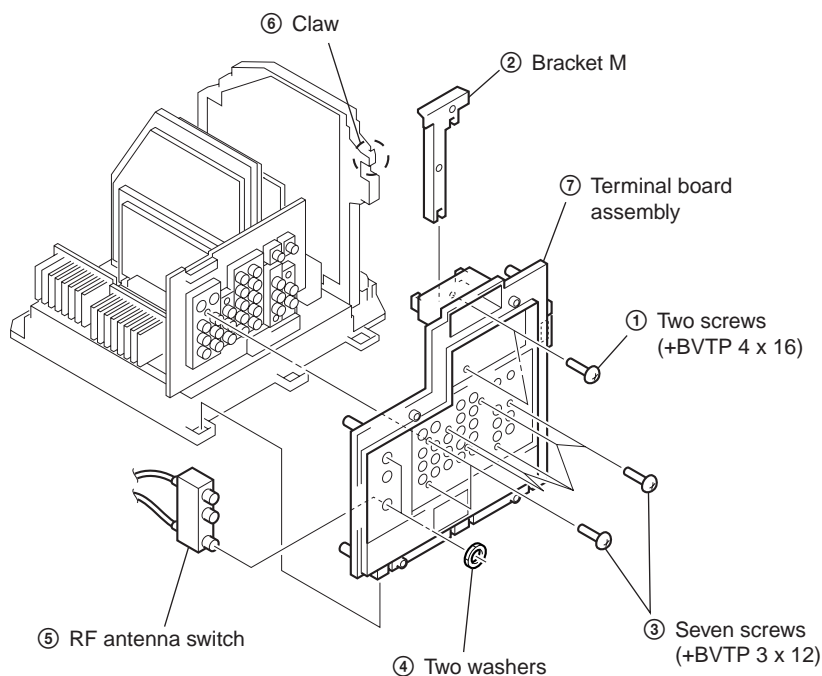
2-5. OPTICAL UNIT BLOCK ASSEMBLY REMOVAL

Note: Be careful about the no dust or dirt are on the surface contacts the optical unit block assembly.

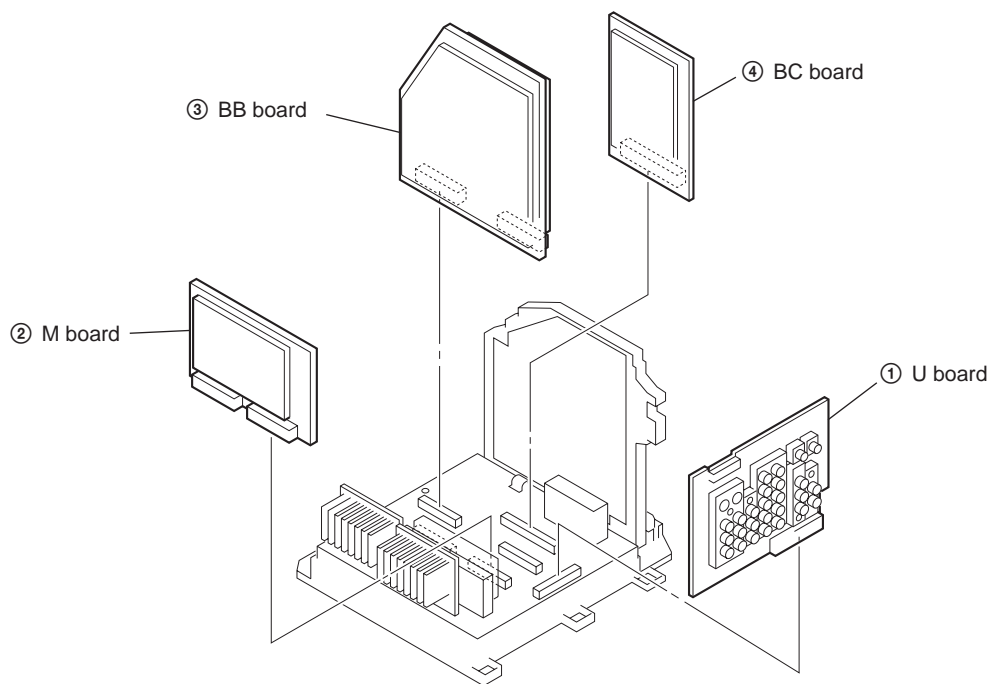
- Clean the periphery of the set.
- Clean the periphery of the optical unit block assembly in the set (the inside of the control panel, the surface contacts between the optical unit block assembly and the bottom cabinet and periphery).



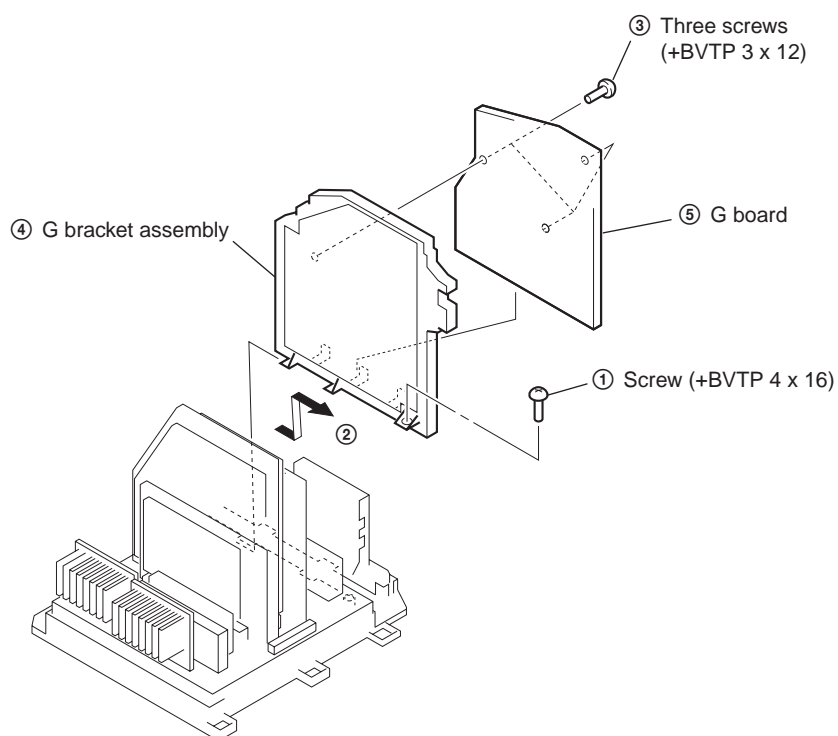
2-6. TERMINAL BOARD ASSEMBLY REMOVAL



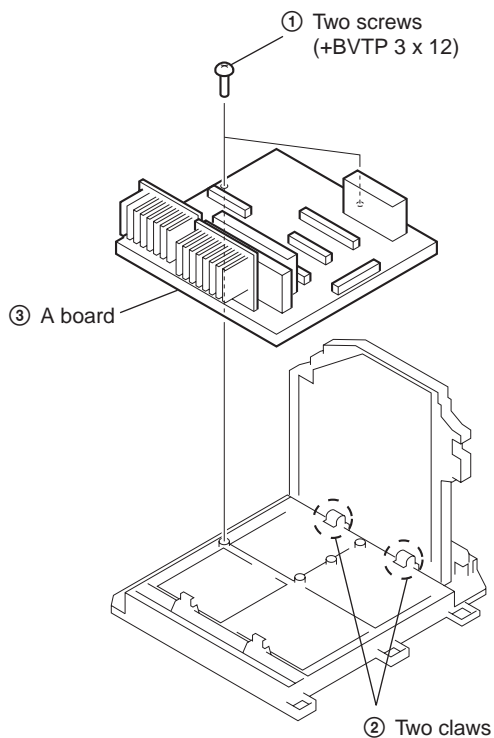
2-7. U, M, BB, BC BOARDS REMOVAL



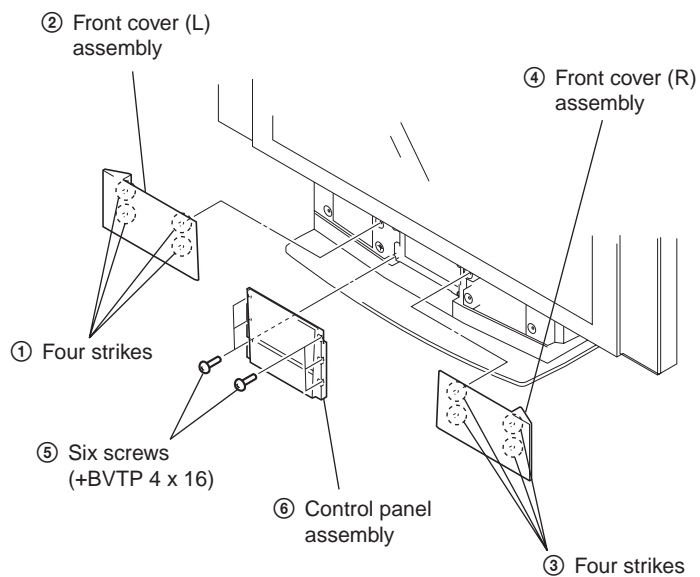
2-8. G BOARD REMOVAL



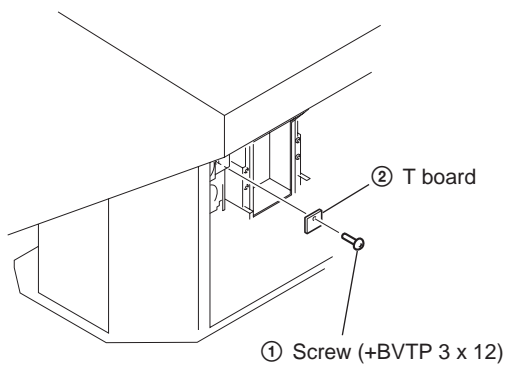
2-9. A BOARD REMOVAL



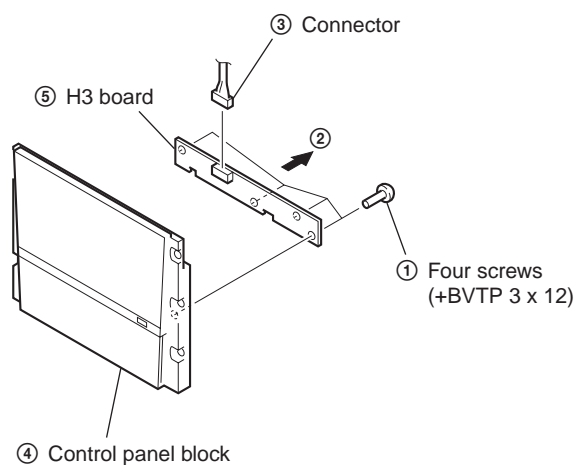
2-11. CONTROL PANEL BLOCK ASSEMBLY REMOVAL



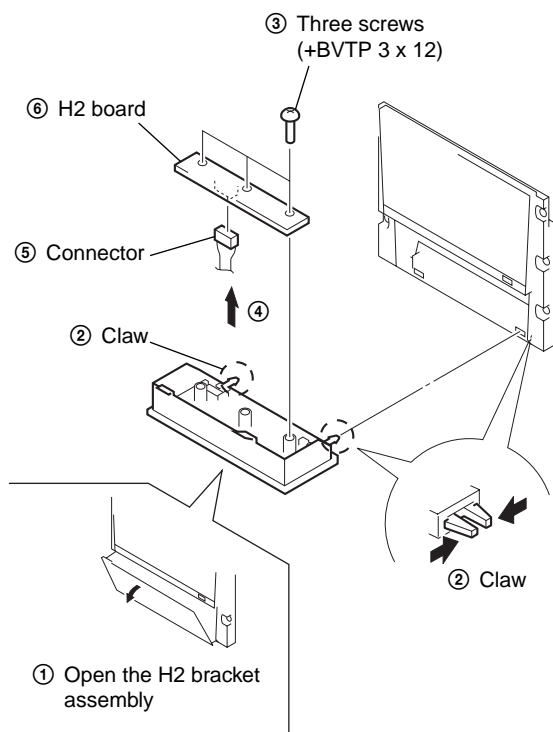
2-10. T BOARD REMOVAL



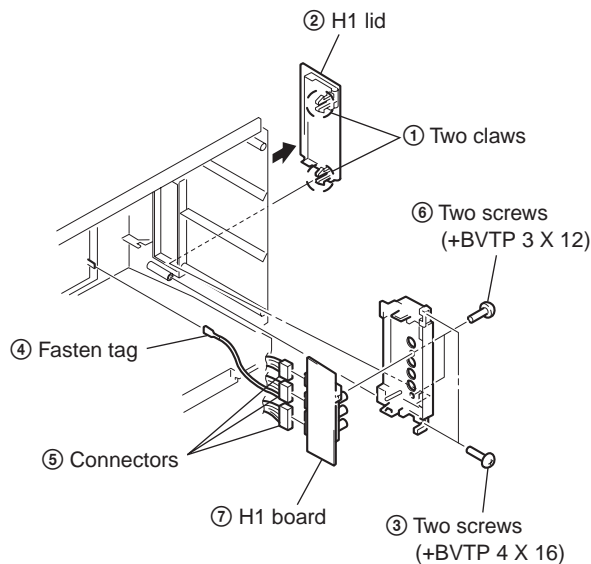
2-12. H3 BOARD REMOVAL



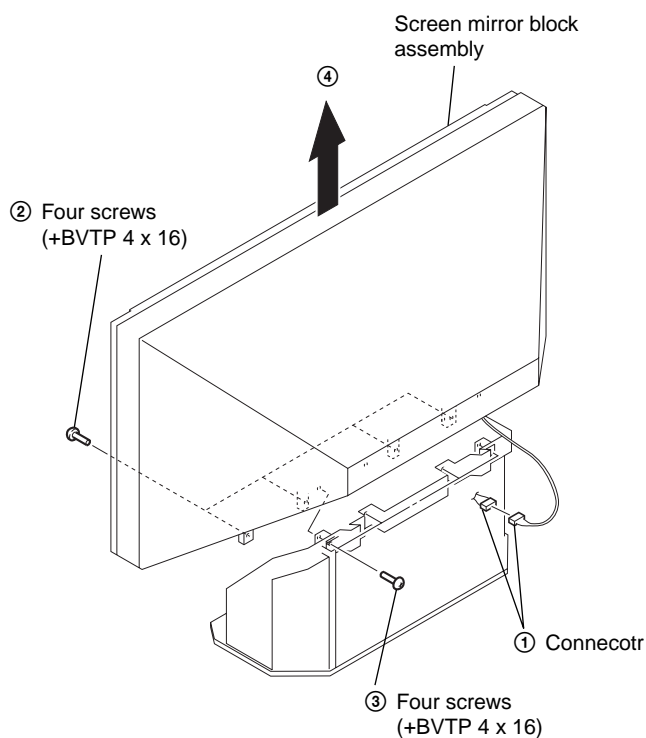
2-13. H2 BOARD REMOVAL



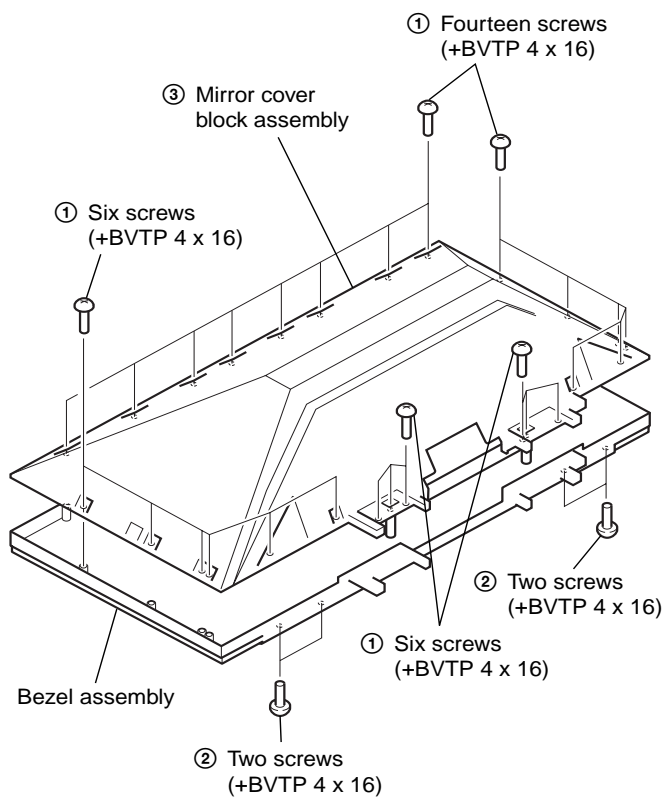
2-15. H1 BOARD REMOVAL



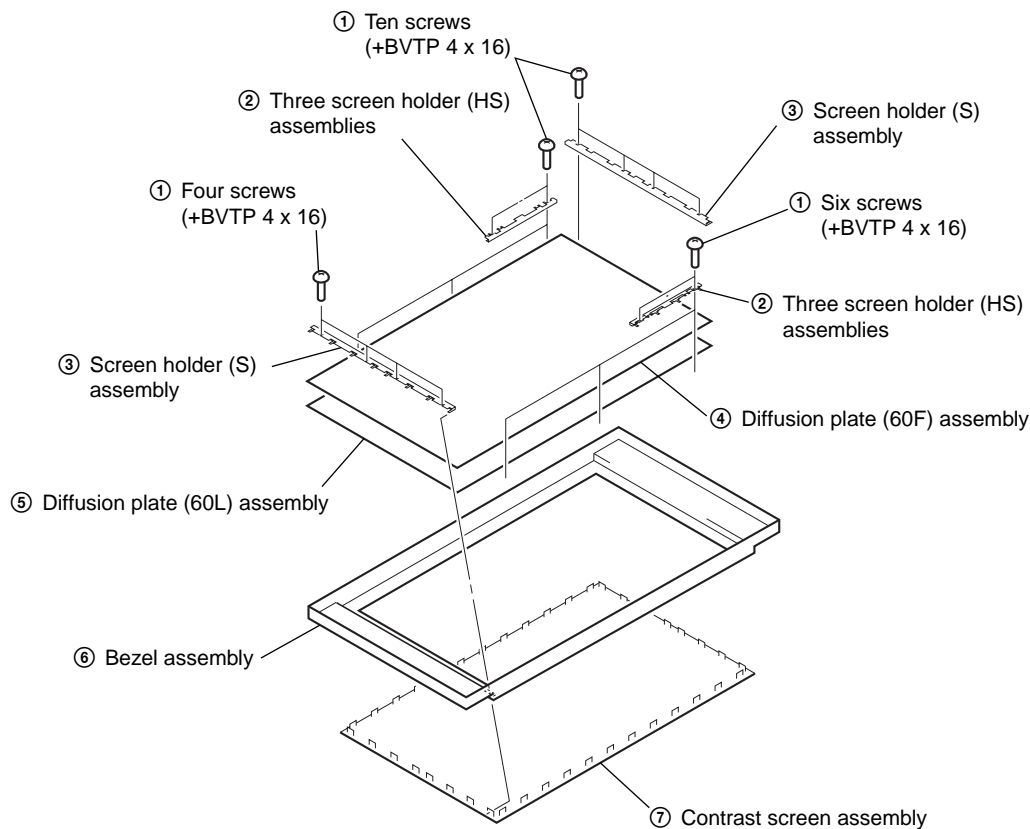
2-14. SCREEN MIRROR BLOCK ASSEMBLY REMOVAL



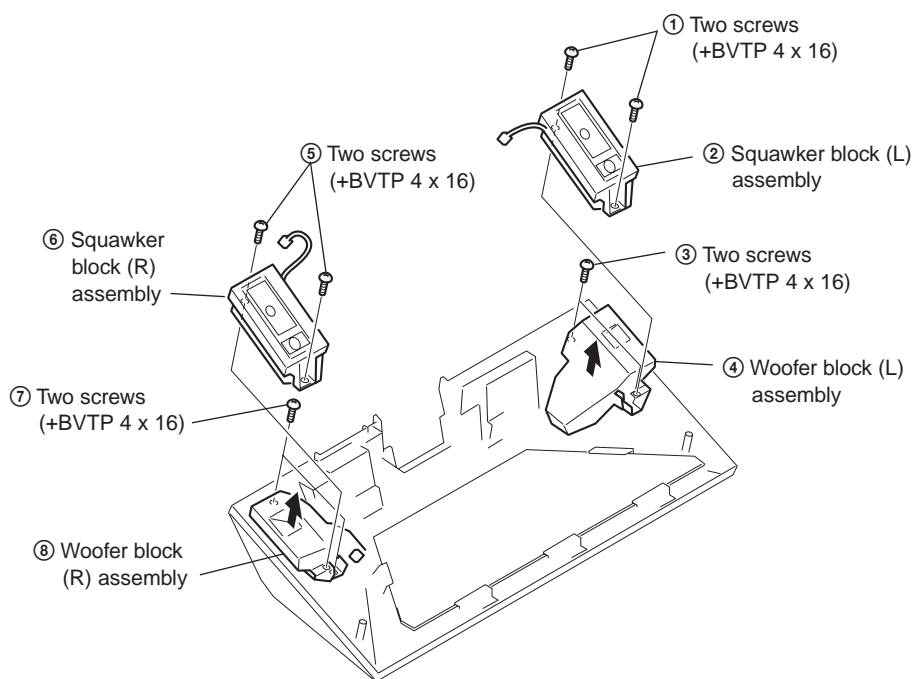
2-16. MIRROR COVER BLOCK ASSEMBLY REMOVAL



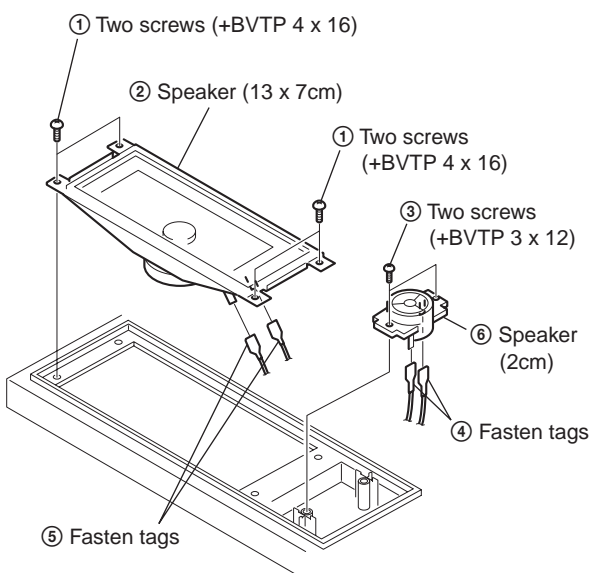
2-17. CONTRAST SCREEN ASSEMBLY REMOVAL



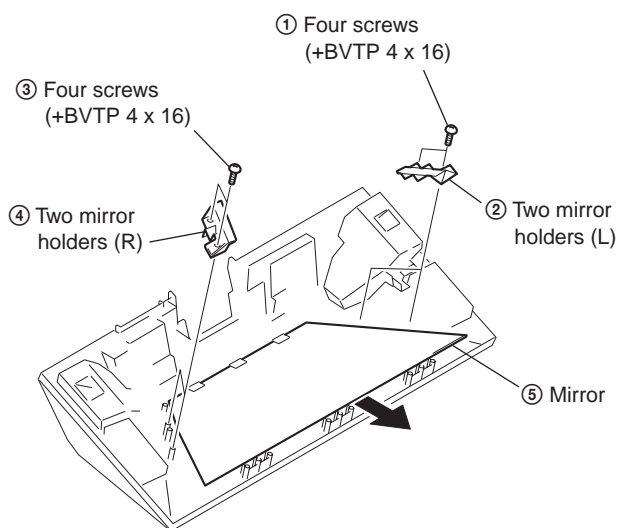
2-18. SQUAWKERS BLOCK ASSEMBLIES, WOOFER BLOCK ASSEMBLIES REMOVAL



2-19. SPEAKERS REMOVAL



2-20. MIRROR REMOVAL



SECTION 3

ELECTRICAL ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

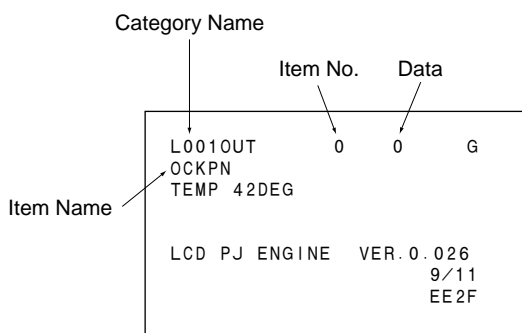
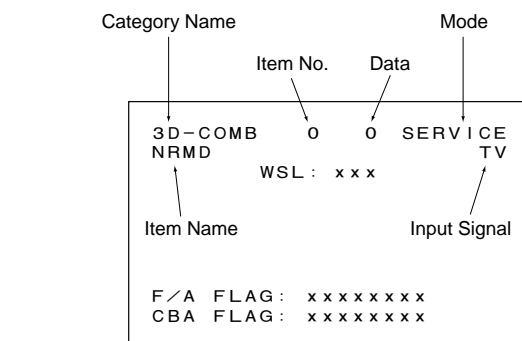
By using remote commander (RM-Y910), all circuit adjustments can be made.

NOTE : Test Equipment Required.

1. Pattern Generator (with component outputs)
2. Oscilloscope
3. Digital multimeter

3-1-1. Method of Setting the Service Adjustment Mode

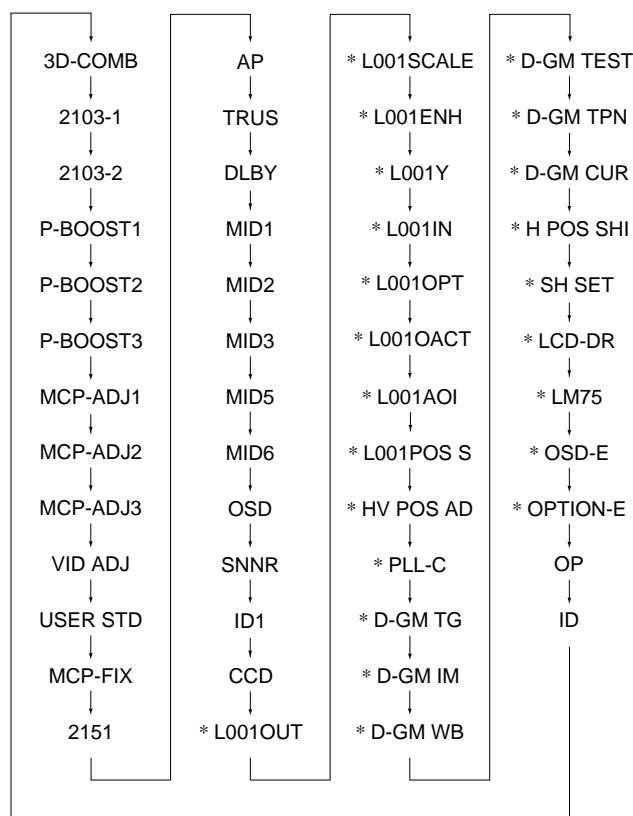
1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL (+)** → **TV POWER** on the remote commander.
(Press each button within a second.)
The following service screen will appear.



<LCD PROJECTOR ENGINE>

3-1-2. Service Mode Adjustment

1. The SCREEN displays the item being adjusted.
2. Press “①” or “④” on the remote commander to select the adjustment item.
3. Press “③” or “⑥” on the remote commander to change the data.
4. Press “②” or “⑤” on the remote commander to select the category.
Every time you press “②” (Category up), Service mode changes in the order as shown below.



* : LCD Projector Engine

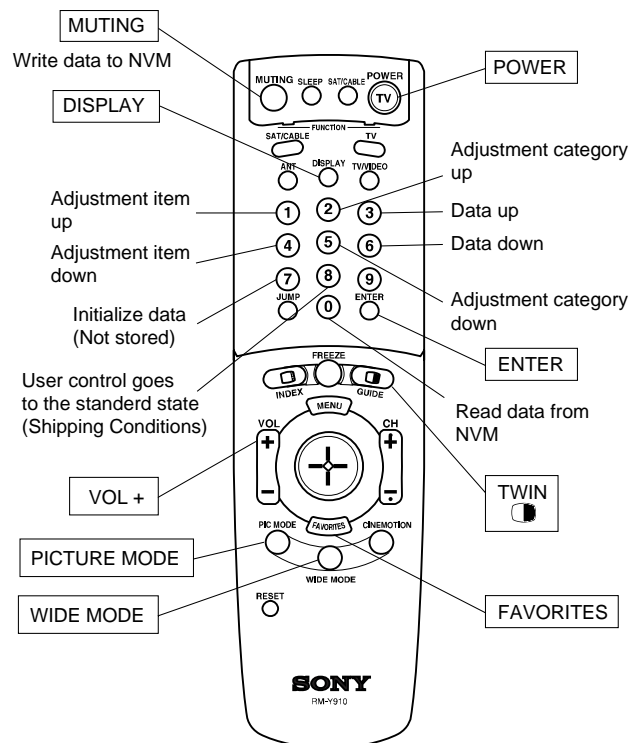
5. If you want to recover the latest values press “⑩” then “**ENTER**” to read the memory.
6. Press “**MUTING**” then “**ENTER**” to write into memory.
7. Turn power off.

Note: Press “⑧” then “**ENTER**” on the remote commander to set the shipping conditions or turn set off and on to exit.

3-1-3. Memory Write Confirmation Method

1. After adjustment, turn power off with the remote commander.
2. Turn power on and set to service mode.
3. Call the adjusted items again and confirm they were adjusted.

3-1-4. Adjusting Buttons and Indicator



RM-Y910

FUNCTION OF KEYS ON COMMANDER

- ① : Changes adjustment item. (item No. moves up)
- ④ : Changes adjustment item. (item No. moves down)
- ② : Changes adjustment category. (category moves up)
- ⑤ : Changes adjustment category. (category moves down)
- ③ : Changes data value. (up)
- ⑥ : Changes data value. (down)

Commander Function

Button	Mode	Description
MUTING + ENTER	WRITE	Writes data to NVM.
① + ENTER	READ	Reads data from NVM.
⑧ + ENTER	RESET	Set the shipping condition.
⑦ + ENTER	INT-	Service data initialization. Not stored. (Be sure not to use usually)

3-1-5. Service Mode List

Note: • shaded items are fixed. There is no need to change data. Others are different a little in the sets individually. Basically, there is no need to change data, too.

3D-COMB

Item		Function	Data Range	Data
No.	Name			
0	NRMD	Noise reduction mode setting	0 - 3	Table 1
1	YAPS	Y output correction	0 - 3	3
2	CLKS	System clock setting	0 - 3	1
3	NSDS	Selection for standard/non-standard signal processing	0 - 3	Table 1
4	MSS	Selection for inter-frame/inter-line processing	0 - 3	0
5	KILS	Killer processing selection	0 - 3	2
6	CDL	C-signal phase with respect to the Y-signal	0 - 7	Table 5
7	DYCO	DY detection coring level (Y motion detection coring)	0 - 15	Table 2
8	DYGA	DY detection gain (Y motion detection gain)	0 - 15	Table 2
9	DCCO	DC detection coring level (C motion detection coring)	0 - 15	Table 2
10	DCGA	DC detection gain (C motion detection gain)	0 - 15	Table 2
11	YNRL	Frame recursive YNR nonlinear filter limit level	0 - 3	1
12	CNRL	Frame recursive CNR nonlinear filter limit level	0 - 3	1
13	VTRH	Hysteresis for H sync non-standard signal detection	0 - 3	Table 3
14	VTRR	Sensitivity for H sync non-standard signal detection	0 - 3	Table 3
15	LDSR	Sensitivity for frame non-standard signal detection	0 - 3	Table 3
16	VAPG	V aperture compensation gain	0 - 7	Table 6
17	VAPI	V aperture compensation convergence point	0 - 31	Table 6
18	YPFT	Y peaking filter (BPF) center frequency	0 - 3	3
19	YPFG	Y peaking filter (BPF) gain	0 - 15	7
20	YHCO	Y output high frequency component coring	0 - 3	0
21	YHCG	Y output high frequency component coring gain	0 - 1	0
22	HSSL	H sync slice level	0 - 15	12
23	VSSL	V sync slice level	0 - 15	8
24	ADCL	ADC clock delay	0 - 3	3
25	D2GA	Moving detection gain	0 - 7	Table 2
26	KILR	Killer detection reference	0 - 15	3
27	OP	Option : Selection of comb filter & recursive noise reduction types	0 - 1	1
28	NR1	Noise reduction on/off	0 - 1	Table 1
29	NR2	SNNR control on/off	0 - 1	0
30	WSL	Noise level detection level data	0 - 255	Read
31	HPLL	H PLL filter	0 - 1	1
32	BPLL	Burst PLL filter	0 - 1	1
33	FSCF	Burst extraction gain	0 - 1	0
34	PLL F	PLL loop gain	0 - 1	1
35	CC3N	Selection if a line comb filter C separation filter characteristic	0 - 1	Table 3
36	HDP	Fine adjustment of the system H phase	0 - 7	5
37	BGPS	Burst gate start	0 - 15	4
38	BGPW	Burst gate width	0 - 15	10
39	TEST	Test bit (0 : Normal mode, 1 : Test mode) (*forbidden setting)	0 - 1	0
40	WSC	Amount of noise detection coring	0 - 3	1
41	LIND	DRC-M line doubling setting for non-standard signal UHF/VHF & Video 1-4	0 - 15	Table 4
42	PFGO	YPFG offset at GR on (*not used)	0 - 7	3

Table 1

		RF/Video				S Video			
		Standard		Non-standard		Standard		Non-standard	
		3D (COMB)	3L (THROUGH)	3L (ROUND)	3L (THROUGH)	COMB/ROUND	THROUGH	ROUND	THROUGH
28	NR=	0	1	0	1	0	1	0	1
0	NRMD	0	0	1	1	3 (when OP=0) 2 (when OP=1)	2	3	3
3	NSDS	0	3	0	3	0	3	0	3

Table 2

		3DYC	2DYC + YCNR	MNNR	YCNR
0	NRMD=	0	1	2	3
7	DYCO	2	2	2	4
8	DYGA	10	10	10	10
9	DCCO	5	5	3	5
10	DCGA	5	5	10	5
25	D2GA	4	4	4	4

Table 3

		RF	Video (CV/S)	Component
13	VTRH	1	1	1
14	VTRR	1	1	1
15	LDSR	2	2	2
35	CC3N	0	0	0

Table 4

		RF	Video (1,2,3,4)	Video (5,6)
41	LIND	0	0	2

Table 5

		RF	Video (CV/S)
6	CDL	3	3

Table 6

		VIVID	STANDARD	MOVIE	MILD
16	VAPG	0	3	3	0
17	VAPI	6	10	10	4

2103-1

Item		Function	Data Range	One screen (Mild)		Others	
No.	Name			RF/Video	Component (480i)	RF/Video	Component (480i)
0	YLEV	Y out gain	0 - 63	45	50	28	33
1	CLEV	Cb & Cr out gain	0 - 63	35	58	13	31
				RF	Video		
2	SCON	Sub contrast	0 - 15	8	9		
3	SCOL	Sub color	0 - 15	6	7		
4	SHUE	Sub hue	0 - 15	9	8		
5	YDLY	Y/C delay time	0 - 3	0	0		
				RF	Composite Video	S Video	Component (480i)
6	SHAP	Sharpness	0 - 15	5	6	6	5
7	SHF0	Sharpness f0 selector	0 - 3	1	2	2	2
8	PRE0	Shapeness pre/over-shoot ratio	0 - 3	0	3	3	0
9	BPF0	Chroma band filter f0 setting	0 - 3	3	0	0	0
10	BPFQ	Chroma band filter Q setting	0 - 3	0	0	0	0
11	BPSW	Chroma band filter on/off	0 - 1	1	0	0	0
12	TRAP	Y block chroma trap filter on/off	0 - 1	0	0	0	0
13	LPF	Y/Cb/Cr output LPF on/off	0 - 1	1	1	1	1
				RF	Video	Component (480i)	
14	AFCG	AFC loop gain (PLL between H sync & H VCO)	0 - 1	1	0	0	
15	CDMD	V countdown system mode selector	0 - 3	3	3	3	
16	SSMD	H & V sync slide level setting	0 - 3	0	0	0	
17	HMSK	Masking of macrovision signal on/off	0 - 1	1	1	1	
18	HALI	H automatic adjustment on/off	0 - 1	0	0	0	
19	PPHA	H TIM phase adjustment video	0 - 15	6	8	8	
				One screen (Mild)		Others	
				RF/Video	Component (480i)	RF/Video	Component (480i)
20	CBOF	Cb/EXT Cb offset	0 - 63	32	34	36	36
21	CROF	Cr/EXT Cr offset	0 - 63	32	31	33	33
				One screen	Others		
				0	3		
22	ATPD	Auto-pedestal inflection point	0 - 3	0		Movie	
				0	2		
23	DCTR	DC transmission ratio	0 - 3	0		Movie	

2103-2

Item		Function	Data Range	RF/Video		
No.	Name			VDO	DRC	
0	YLEV	Y out gain	0 - 63	26	22	
1	CLEV	Cb & Cr out gain	0 - 63	23	16	
				RF	Video	
2	SCON	Sub contrast	0 - 15	8	12	
3	SCOL	Sub color	0 - 15	6	6	
4	SHUE	Sub hue	0 - 15	9	8	
5	YDLY	Y/C delay time	0 - 3	0	0	
				RF	Composite Video	S Video
6	SHAP	Sharpness	0 - 15	6	6	6
7	SHF0	Sharpness f0 selector	0 - 3	1	1	1
8	PREO	Shapeness pre/over-shoot ratio	0 - 3	0	3	3
9	BPF0	Chroma band filter f0 setting	0 - 3	0	0	0
10	BPFQ	Chroma band filter Q setting	0 - 3	0	0	0
11	BPSW	Chroma band filter on/off	0 - 1	0	0	0
12	TRAP	Y block chroma trap filter on/off	0 - 1	0	0	0
13	LPF	Y/Cb/Cr output LPF on/off	0 - 1	1	1	1
				RF	Video	
14	AFCG	AFC loop gain (PLL between H sync & H VCO)	0 - 1	1	0	
15	CDMD	V countdown system mode selector	0 - 3	3	3	
16	SSMD	H & V sync slide level setting	0 - 3	0	0	
17	HMSK	Masking of macrovision signal on/off	0 - 1	1	1	
18	HALI	H automatic adjustment on/off	0 - 1	0	0	
19	PPHA	H TIM phase adjustment video	0 - 15	7	8	
				RF/Video		
				VDO	DRC	
20	CBOF	Cb/EXT Cb offset	0 - 63	32	36	
21	CROF	Cr/EXT Cr offset	0 - 63	33	34	
				Data		
22	ATPD	Auto-pedestal inflection point	0 - 3	*1		
23	DCTR	DC transmission ratio	0 - 3	*1		

*1 The same data as 2103-1.

P- BOOST 1

Item		Function	Data Range	Data
No.	Name			
0	BSET	Data table selection	0 - 7	Table1
1	AMS	Amplitude mode selection	0 - 1	1
2	DEMO	Demonstration mode on/off	0 - 1	0
3	SN	Steepness correction	0 - 63	-

Table1

SCREEN MODE		Vivid	Standard	Movie	Mild
One screen	RF	2	4	6	4
	Video	5	7	6	7
	Component	1	3	6	3
Two screen		0	0	0	0

P- BOOST 2

Item		Function	Data Range	BSET data (P-BOOST1 _0_BSET=)							
No.	Name			0	1	2	3	4	5	6	7
0	LWID	Line width correction	0 - 63	0	31	31	31	31	31	31	31
1	STEP	Steeness correction	0 - 63	0	0	0	0	0	0	0	0
2	CRNG	Coring level	0 - 63	0	15	25	10	30	15	5	15
3	VDC	Video dependent coring on/off	0 - 1	0	1	1	1	1	1	1	1
4	OSP	Overrule smart peaking	0 - 1	0	0	1	0	0	0	0	0
5	BOST	Black offset compensation on/off	0 - 1	0	0	0	0	0	0	0	0
6	ABST	Adaptive black stretch	0 - 63	0	0	0	0	0	0	0	0
7	VGAM	Variable gamma	0 - 63	32	28	24	24	22	27	31	22
8	NLMP	Non-linearity amplifier	0 - 63	0	22	20	21	15	22	7	18
9	PKNG	Peaking amplitude	0 - 63	0	37	15	32	25	35	20	42
10	CFS	Contour filter selection	0 - 1	0	1	1	1	1	1	1	1
11	FHS	Line frequency selection	0 - 1	0	0	0	0	0	0	0	0
12	LDH	Luminance determined histogram	0 - 1	0	1	1	1	1	1	1	1
13	SNOW	Snow color adjustment by green stretch	0 - 1	1	1	1	1	1	1	1	1
				Comon							
14	WLB	Window letterbox format	0 - 1	0							

P- BOOST 3

Item		Function	Data Range	BSET data (P-BOOST1 _0_BSET=)							
No.	Name			0	1	2	3	4	5	6	7
0	CDS	Color dependent sharpness on/off	0 - 1	1	1	1	1	1	1	1	1
1	CTI	Color transient improvement on/off	0 - 1	0	0	0	0	0	0	0	0
2	WPO	White-point stretch on/off	0 - 1	1	1	1	1	1	1	1	1
3	DBL	Blue stretch on/off	0 - 1	0	0	0	0	0	0	0	0
4	GBL	Blue stretch gain	0 - 1	0	0	0	0	0	0	0	0
5	SBL	Blue stretch size	0 - 1	0	0	0	0	0	0	0	0
6	DSK	Dynamic skin tone on/off	0 - 1	0	0	0	0	0	0	0	0
7	ASK	Dynamic skin tone angle	0 - 1	0	0	0	0	0	0	0	0
8	WSK	Dynamic skin tone width	0 - 1	0	0	0	0	0	0	0	0
9	SSK	Dynamic skin tone size	0 - 1	0	0	0	0	0	0	0	0
10	DGR	Green enhancement on/off	0 - 1	0	1	1	0	0	1	0	0
11	GGR	Green enhancement gain	0 - 1	0	0	0	0	0	0	0	0
12	WGR	Green enhancement width	0 - 1	0	0	0	0	0	0	0	0
13	SGR	Green enhancement size	0 - 1	0	0	0	0	0	0	0	0
14	CDLY	Chrominance delay	0 - 7	4	7	7	7	7	4	5	4

MCP-ADJ1

Item			RF / Video		Component				Twin , Favorite, Index, Freeze
			480i		480i		480p/720p	1080i	
			Mild	Others	Mild	Others	All mode	All mode	
0	RDRV	RED drive gain control	0 - 63	50	50	50	50	50	50
1	RCUT	RED cutoff control	0 - 63	40	40	40	40	40	40
2	GDRV	GREEN drive gain control	0 - 63	50	50	50	50	50	50
3	GCUT	GREEN cutoff control	0 - 63	40	40	40	40	40	40
4	BDRV	BLUE drive control	0 - 63	50	50	50	50	50	50
5	BCUT	BLUE cutoff control	0 - 63	40	40	40	40	40	40
6	CROF	DC offset for Cr signal	0 - 15	9	9	9	9	6	7
7	CBOF	DC offset for Cb signal	0 - 15	7	7	7	7	6	7
8	SCON	Sub contrast gain control	0 - 15	4	4	4	4	5	5
9	SBRT	Sub brightness control	0 - 63	31	31	31	31	31	31
10	PICT	Picture gain control	0 - 63	53	53	50	50	50	53
11	BRT	Brightness control	0 - 63	55	55	55	55	55	55

MCP-ADJ2

Item			Data Range	RF	Video	Component				Twin , Favorite, Index, Freeze	Shift value of HD system			
						480i	480p	720p	1080i		Neutral	Warm	Neutral	Warm
0	SCOL	Color gain control	0 - 15	7	7	7	8	7	7	7	-	-	-	-
1	SHUE	Hue center control	0 - 15	8	8	8	8	8	7	9	-	-	-	-
2	RYR	Sets +(R-Y) component in R-Y axes	0 - 15	2	2	2	2	4	4	2	0	0	0	0
3	RYB	Sets -(B-Y) component in R-Y axes	0 - 15	10	10	10	10	12	12	10	+4	+4	0	0
4	GYR	Sets -(R-Y) component in G-Y axes	0 - 15	10	10	10	12	10	10	10	0	0	0	0
5	GYB	Sets -(B-Y) component in G-Y axes	0 - 15	8	8	8	5	5	5	8	0	0	0	0

MCP-ADJ3

MCP-AD33																		
Item		Function	Data Range	RF		Video		Component										Twin , Favorite, Index, Freeze
No.	Name			Mild	Others	Mild	Others	480i		480p		720p		1080i				
								Mild	Others	Mild	Others	Mild	Others	Mild	Others			
0	SSHP	Sharpness center control	0 - 3	1	1	0	0	0	0	0	1	0	1	0	0	0		
1	F0	Sets sharpness f0	0 - 3	1	3	1	3	1	3	1	3	3	3	3	3	3		
2	POVR	Sets the preshoot to overshoot ratio	0 - 3	1	3	1	3	2	2	2	2	2	2	2	2	0		
3	SYSM	Sets signal bandwidth	0 - 3	1	1	1	1	1	2	1	1	1	1	2	2	2		
4	CTI	Sets edge improvement of color difference signal	0 - 3	0	0	0	0	0	1	0	1	0	0	0	1	1		

VID ADJ

Item			Function	Data Range	RF				Video				Component				
No.	Name	Vivid			Standard	Movie	Mild	Vivid	Standard	Movie	Mild	480i					
												Vivid	Standard	Movie	Mild		
0	LTI	Sets edge improvement of brightness signal		0 - 3	0	0	0	0	0	0	0	0	0	0	0	Full / Normal Zoom / Caption	
1	GAM	Gamma offset control		0 - 15	6	1	7	1	1	1	7	1	2	1	7		1
2	DCTN	Sets Y-system DC transmission rate		0 - 3	1	1	0	1	1	1	0	1	1	1	0		1
3	DPIC	Dynamic picture control		0 - 3	3	2	0	2	3	2	0	2	1	1	0		1
4	MIDE	Sets MID enhancement		0 - 31	15	14	13	12	3	2	1	0	7	6	5	4	Full / Normal Zoom / Caption
					15	14	13	12	3	2	1	0	7	6	5	4	
					Component												
					480p				720p				1080i				
					Vivid	Standard	Movie	Mild	Vivid	Standard	Movie	Mild	Vivid	Standard	Movie	Mild	
0	LTI	Sets edge improvement of brightness signal		0 - 3	0	0	0	0	0	0	0	0	0	0	0	0	Full / Normal Zoom / Caption
1	GAM	Gamma offset control		0 - 15	4	3	12	3	6	1	7	1	6	1	7	1	
2	DCTN	Sets Y-system DC transmission rate		0 - 3	1	1	0	1	1	1	0	1	1	1	0	1	
3	DPIC	Dynamic picture control		0 - 3	2	1	0	1	2	1	0	1	2	1	0	1	
4	MIDE	Sets MID enhancement		0 - 31	11	10	9	8	19	18	17	16	15	14	13	12	Full / Normal Zoom / Caption
					11	10	9	8	-	-	-	-	-	-	-	-	
					Twin Picture , Freeze, Favorite				Index				Full / Normal Zoom / Caption				
					Vivid	Standard	Movie	Mild	Vivid	Standard	Movie	Mild					
					0	LTI	Sets edge improvement of brightness signal		0 - 3	0	0	0	0	0	0	0	0
1	GAM	Gamma offset control		0 - 15	6	2	7	2	6	2	7	2					
2	DCTN	Sets Y-system DC transmission rate		0 - 3	0	0	0	0	0	0	0	0					
3	DPIC	Dynamic picture control		0 - 3	0	0	0	0	0	0	0	0					
4	MIDE	Sets MID enhancement		0 - 31	23	22	21	20	23	22	21	20	Full / Normal Zoom / Caption				
					-	-	-	-	-	-	-	-					

USER STD

No.	Name	Function	Data Range	Vivid	Standard	Movie	Mild
0	UPIC	Picture	0 - 63	63	48	31	48
1	UBRT	Brightness	0 - 63	17	26	21	26
2	UCOL	Color gain control	0 - 63	31	31	35	31
3	UHUE	Hue control	0 - 63	31	31	31	31
4	USHP	Sharpness gain control	0 - 63	37	37	31	31
5	UHWI	Dynamic color on/off	0 - 1	0	0	0	0
6	UTMP	Color temperature (9 : Warm, 1 : Neutral, 2 : Cool)	0 - 3	2	1	0	1

*In case of USER RESET or TEST RESET, write in data of USER STD

	Vivid	Standard	Movie	Mild
Picture	63	48	31	48
Brightness	17	26	21	26
Color	31	31	35	31
Hue	31	31	31	31
Sharpness	37	37	31	31
Color Temp	2	1	0	1

				RF				Video				Component							
				Vivid	Standard	Movie	Mild	Vivid	Standard	Movie	Mild	480i				480i			
												Vivid	Standard	Movie	Mild	Vivid	Standard	Movie	Mild
7	UPOF	Offset for UPIC (picture clarity adjustment)	0 - 31 - 63	30	33	31	33	28	33	31	31	28	33	31	33	27	34	27	34
8	UBOF	Offset for UBRT (Picture clarity adjustment)	0 - 31 - 63	32	31	26	34	38	29	26	31	31	31	32	31	38	36	32	36
9	UCOF	Offset for UCOL (Picture clarity adjustment)	0 - 31 - 63	36	30	31	28	35	31	31	31	33	31	31	31	36	35	27	35
10	UHOF	Offset for UHUE (Picture clarity adjustment)	0 - 31 - 63	26	26	28	26	31	31	28	31	31	31	28	31	31	31	28	31
11	USOF	Offset for USHP (Picture clarity adjustment)	0 - 31 - 63	33	28	31	31	38	42	37	31	28	31	31	31	33	43	40	31
				Component								Twin Picture , Freeze, Index , Favorite							
				720p				1080i											
				Vivid	Standard	Movie	Mild	Vivid	Standard	Movie	Mild								
												Vivid	Standard	Movie	Mild				
7	UPOF	Offset for UPIC (picture clarity adjustment)	0 - 31 - 63	29	33	31	33	31	31	31	31	31	34	36	34				
8	UBOF	Offset for UBRT (Picture clarity adjustment)	0 - 31 - 63	31	36	32	36	31	36	32	36	32	37	29	37				
9	UCOF	Offset for UCOL (Picture clarity adjustment)	0 - 31 - 63	34	29	31	29	34	29	31	29	35	31	30	31				
10	UHOF	Offset for UHUE (Picture clarity adjustment)	0 - 31 - 63	31	31	28	31	31	31	28	31	26	26	28	26				
11	USOF	Offset for USHP (Picture clarity adjustment)	0 - 31 - 63	31	31	31	31	31	31	31	31	31	37	31	25				

*set 31 in the center, and shift to USER DATA

*About color, if USER DATA becomes 0, data of CXA2101_COLOR becomes 0 compulsorily

MCP-FIX

Item		Function	Data Range	Data
No.	Name			
0	RON	Turns on/off RED video output not including reference pulse	0-1	1 (*1)
1	GON	Turns on/off GREEN video output not including reference pulse	0-1	1 (*1)
2	BON	Turns on/off BLUE video output not including reference pulse	0-1	1 (*1)
3	CBLK	Turns on/off H, V blanking for RGB outputs	0-1	0
4	AKBT	Selects the timing pulse that generates reference pulse	0-1	1
5	BLKS	Selects H, V blanking system for RGB outputs	0-1	1
6	LIMI	Limiter to excess input	0-3	0
7	YSYM	Sets valid/invalid to the input pin YS/YM-1	0-1	0
8	YMVM	Turns on/off MUTE function for VM OUT in YM ON section	0-1	0
9	CLPS	Selects color difference input pin offset control pulse	0-1	1
10	CLPM	Changes over clamp pulse width	0-3	0
11	ABLM	Changes over ABL mode	0-3	0
12	ABLT	Adjusts threshold voltage to the input of ABL IN pin	0-3	0
13	HSMA	Sets whether H sync is added to V sync at HS-OUT and SELH-OUT	0-1	1
14	LRGB	Picture level control in LRGB2 system	0-15	15
15	PABL	Sets level detection DC at RGB-OUT of PEAK-ABL	0-15	15
16	BLKB	RGB-OUT bottom limiter level control	0-15	5

*1 Don't memorize

AP

Item		Function	Data Range	Data
No.	Name			
0	SVOL	Volume offset for volume	0 - 15	0
1	SBAL	Balance offset for balance	0 - 15	7
2	SBAS	Bass offset for bass	0 - 15	3
3	STRE	Treble offset for treble	0 - 15	4
4	BBLP	BBE low pass filter	0 - 15	13
5	BBHP	BBE high pass filter	0 - 15	10
6	SREF	Surround effect	0 - 15	11
7	AGC	Auto gain control	0 - 1	0
8	BBE	BBE on/off	0 - 1	1

TRUS

Item		Function	Data Range	Data
No.	Name			
0	TSMD	Trusurround effect selection	0 - 3	2
1	ATT		0 - 1	0

DLBY

Item		Function	Data Range	Data
No.	Name			
0	DBMD		0 - 7	0
1	SCH		0 - 1	0
2	ADSW		0 - 1	0
3	CECH		0 - 3	0
4	DELY		0 - 7	7
5	SSEL		0 - 3	0

2151

Item		Function	Data Range	15.75 kHz	31.5 kHz	33.75 kHz	45 kHz
No.	Name						
0	MTRX	Matrix out	0 - 3	0	0	1	1
				COMMON			
1	GAIN	Gain select	0 - 3	0			
2	CBGN	Cb gain	0 - 15	9			
3	VTC	V TC	0 - 3	1			
4	HWID	H width	0 - 3	1			
				RF/Video 1, 2, 3, 4 (Video 5, 6 no signal)			
5	HSEP	HSEP select	0 - 1	1	1	1	
				COMMON			
6	TEST	Test	0 - 1	0			
7	FRGB		0 - 1	0			
				1080i Others			
8	HMSK	H sync masking in vertical retrace	0 - 1	0		1	

MID1

Item		Function	Data Range	Comon
No.	Name			
0	DHPH	H active display area phase	0 - 255	108
1	DVPH	V active display area phase	0 - 63	17
2	DHAR	H active display area size	0 - 255	230
3	DVAR	V active display area size	0 - 255	120
4	DHPW	Display H pulse width	0 - 63	59
5	DVPW	Display V pulse width	0 - 7	5
6	DYCD	Display output Y-C delay correction	0 - 63	2
7	DYSD	Display output YS signal delay select	0 - 7	7
			480i, 480p	
			Normal	Others
8	MDHP	Main display picture H position	0 - 255	139
9	MDVP	Main display picture V position	0 - 255	0
10	MDHS	Main display picture H size	0 - 255	163
11	MDVS	Main display picture V size	0 - 255	120
			720i, 1080i (Parent)	1080i (Child)
			Favorite	
8	MDHP	Main display picture H position	0 - 255	139
9	MDVP	Main display picture V position	0 - 255	0
10	MDHS	Main display picture H size	0 - 255	163
11	MDVS	Main display picture V size	0 - 255	120
			INDEX	Others
12	MLHP	Multi picture mode H position	0 - 255	19
13	MLVP	Multi picture mode V position	0 - 255	8
			Favorite	Others
14	SDHP	Sub display picture H position	0 - 255	173
15	SDVP	Sub display picture V position	0 - 255	4
16	SDHS	Sub display picture H size	0 - 255	52
17	SDVS	Sub display picture V size	0 - 255	35
			Comon	
18	PDHP	P & P large mode H position	0 - 255	99
19	PDVP	P & P large mode V position	0 - 255	55
20	PDHS	P & P large mode H size	0 - 255	117
21	PDVS	P & P large mode V size	0 - 255	60
22	DPSW	Display PLL switch	0 - 1	1
23	MDL	Model select (16:9/4:3)	0 - 1	0
			Normal	Others
24	BCOL	Background Y level	0 - 15	0

MID2

Item		Function	Data Range	One screen				PAP , Favorite		
No.	Name			Normal		Others		YC 480i (Parent)	YC 480i (Child)	YC 480i (Child)
0	DRHP	DRC H active area position	0 - 255	146	145	120	119	130	130	140
1	DRHS	DRC H active area size	0 - 255	163	163	174	174	167	167	167
2	DRVP	DRC V active area position	0 - 63	38	38	38	38	55	55	55
3	DRVS	DRC V active area size	0 - 255	120	120	120	120	111	111	111
				INDEX		Freeze				
0	DRHP	DRC H active area position	0 - 255	130	130	143	146	145		
1	DRHS	DRC H active area size	0 - 255	167	167	163	163	163		
2	DRVP	DRC V active area position	0 - 63	46	46	55	55	55		
3	DRVS	DRC V active area size	0 - 255	116	116	111	111	111		

MID3

				One screen							
Item		Function	Data Range	Normal		Others					
No.	Name			DRC Through (Mild)	480p	DRC Through (Mild)	480p	720p	1080i (Don't used)		
0	VDHP	VDO H active area position	0 - 255	208	131	179	110	95	104		
1	VDHS	VDO H active area pixel size	0 - 255	213	154	227	164	106	147		
2	VDVE	VDO V active area even position	0 - 63	17	38	17	38	41	31		
3	VDVS	VDO V active area line size	0 - 255	60	120	60	120	178	135		
				PAP, Favorite				Index			
				480i (Parent)	480p (Parent)	720p (Parent)	1080i (Parent)	480i (Parent)	480p (Parent)	720p (Parent)	1080i (Parent)
0	VDHP	VDO H active area position	0 - 255	199	117	99	84	197	117	Same as PAP, Favorite	Same as PAP, Favorite
1	VDHS	VDO H active area pixel size	0 - 255	217	157	102	152	213	157		
2	VDVE	VDO V active area even position	0 - 63	25	55	54	41	25	46		
3	VDVS	VDO V active area line size	0 - 255	56	111	165	124	56	116		
				Freeze							
				480i (Mild) (Parent)	480i (Others) (Parent)	1080i (Parent)	480p (Parent)	720p (Parent)			
0	VDHP	VDO H active area position	0 - 255	208	99		131	111			
1	VDHS	VDO H active area pixel size	0 - 255	213	148		154	99			
2	VDVE	VDO V active area even position	0 - 63	25	41		55	54			
3	VDVS	VDO V active area line size	0 - 255	56	124		111	165			
				DRC Through (Mild)	480p	720p	1080i				
4	VDVO	VDO V active area odd position	0 - 3	0	0	0	0				
5	VCPO	VDO clamp pulse output timing	0 - 255	95	70	40	40				
6	VCWD	VDO clamp pulse width	0 - 7	3	3	3	3				
7	VYCD	VDO Y/C delay	0 - 63	0	0	0	0				
				DRC Through (Mild)	480p	480i	1080i	720p			
8	VSTP	VDO PLL phase detect stop line count	0 - 255	119		160		146			
9	VSTT	VDO PLL phase detect start line count	0 - 15	4		0		0			
				Common							
10	VHSC	VDO H sync cycle	0 - 255	130							

MID5 (1/2)

Item		Function	Data Range												
No.	Name			POP=0	POP=1	POP=2	POP=3	POP=4	POP=5	POP=6	POP=7	POP=8	POP=9	POP=10	POP=11
0	POP	Table select	0 - 23												
1	MHLY	Main H LPF Y coefficient select	0 - 3	1	2	2	2	1	0	0	0	1	0	0	0
2	MHLC	Main H LPF C coefficient select	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
3	MVLY	Main V LPF Y coefficient select	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
4	MVLC	Main V LPF C coefficient select	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
5	MHYR	Main H enhance. Y coreing level	0 - 3	0	1	1	2	0	0	0	2	0	0	1	1
6	MHYL	Main H enhance. Y clip level	0 - 3	0	2	2	2	0	1	1	1	0	1	1	1
7	MHYE	Main H enhance. Y enhancement level	0 - 7	0	3	3	7	0	7	7	7	0	7	7	7
8	MHYO	Main H enhance. Y coefficient select	0 - 1	0	1	1	1	0	1	1	1	0	1	1	1
9	MHCR	Main H enhance. C coreing level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
10	MHCL	Main H enhance. C clip level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
11	MHCE	Main H enhance. C enhancement level	0 - 7	0	0	0	0	0	0	0	0	0	0	0	0
12	MHCO	Main H enhance. C coefficient select	0 - 1	0	0	0	0	0	0	0	0	0	0	0	0
13	MVYR	Main V enhance. Y coreing level	0 - 3	0	0	1	1	0	0	1	1	0	0	1	1
14	MVYL	Main V enhance. Y clip level	0 - 3	0	0	1	1	0	0	2	2	0	0	2	2
15	MVYE	Main V enhance. Y enhancement level	0 - 7	0	0	3	3	0	0	7	7	0	0	7	7
16	MVCR	Main V enhance. C coreing level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
17	MVCL	Main V enhance. C clip level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
18	MVCE	Main V enhance. C enhancement level	0 - 7	0	0	0	0	0	0	0	0	0	0	0	0
0	POP	Table select	0 - 23	POP=12	POP=13	POP=14	POP=15	POP=16	POP=17	POP=18	POP=19	POP=20	POP=21	POP=22	POP=23
1	MHLY	Main H LPF Y coefficient select	0 - 3	1	0	1	1	1	2	2	2	0	0	0	0
2	MHLC	Main H LPF C coefficient select	0 - 3	0	0	0	0	0	2	2	2	0	0	0	0
3	MVLY	Main V LPF Y coefficient select	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
4	MVLC	Main V LPF C coefficient select	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
5	MHYR	Main H enhance. Y coreing level	0 - 3	0	1	1	2	0	1	1	1	0	0	0	0
6	MHYL	Main H enhance. Y clip level	0 - 3	0	1	1	1	0	1	1	1	0	0	0	0
7	MHYE	Main H enhance. Y enhancement level	0 - 7	0	7	7	7	0	7	7	7	0	0	0	0
8	MHYO	Main H enhance. Y coefficient select	0 - 1	0	1	1	1	0	1	1	1	0	0	0	0
9	MHCR	Main H enhance. C coreing level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
10	MHCL	Main H enhance. C clip level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
11	MHCE	Main H enhance. C enhancement level	0 - 7	0	0	0	0	0	0	0	0	0	0	0	0
12	MHCO	Main H enhance. C coefficient select	0 - 1	0	0	0	0	0	0	0	0	0	0	0	0
13	MVYR	Main V enhance. Y coreing level	0 - 3	0	0	2	2	0	1	1	1	0	0	0	0
14	MVYL	Main V enhance. Y clip level	0 - 3	0	0	1	1	0	2	2	2	0	0	0	0
15	MVYE	Main V enhance. Y enhancement level	0 - 7	0	0	7	7	0	7	7	7	0	0	0	0
16	MVCR	Main V enhance. C coreing level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
17	MVCL	Main V enhance. C clip level	0 - 3	0	0	0	0	0	0	0	0	0	0	0	0
18	MVCE	Main V enhance. C enhancement level	0 - 7	0	0	0	0	0	0	0	0	0	0	0	0

MID5 (2/2)

			Common
19	SHLY	(Not used)	0 - 7
20	SHLC	(Not used)	0 - 7
21	SVLY	(Not used)	0 - 7
22	SVLC	(Not used)	0 - 7
23	SHYR	(Not used)	0 - 3
24	SHYL	(Not used)	0 - 3
25	SHYE	(Not used)	0 - 7
26	SHYO	(Not used)	0 - 1
27	SHCR	(Not used)	0 - 3
28	SHCL	(Not used)	0 - 3
29	SHCE	(Not used)	0 - 7
30	SHCO	(Not used)	0 - 1
31	SVYR	(Not used)	0 - 3
32	SVYL	(Not used)	0 - 3
33	SVYE	(Not used)	0 - 7
34	SVCR	(Not used)	0 - 3
35	SVCL	(Not used)	0 - 3
36	SVCE	(Not used)	0 - 7

MID6

Item		Function	Data Range	480p			480i (Mild)			Others		
No.	Name			Full/Normal	Zoom	W-Zoom	Full/Normal	Zoom	W-Zoom	Full/Normal	Zoom	W-Zoom
0	MCUT	Main picture cut out mode	0 - 1	0	1	1	0	1	1	0	1	1
1	MWHS	Main write picture horizontal size	0 - 255	-	164	164	-	227	227	-	174	174
2	MWVS	Main write picture vertical size	0 - 255	-	120	120	-	60	60	-	120	120
3	MRHP	Main read picture horizontal position	0 - 255	-	0	0	-	0	0	-	0	0
4	MRVP	Main read picture vertical position	0 - 255	-	30	11	-	30	11	-	30	11
5	MRHS	Main read picture horizontal size	0 - 255	-	164	164	-	227	227	-	174	174
6	MRVS	Main read picture vertical size	0 - 255	-	90	109	-	90	109	-	90	109

OSD

Item		Function	Data Range	Data
No.	Name			
0	HPOS	OSD horizontal position	0 - 255	10
1	HPOF	Horizontal position for Favorite mode	0 - 255	25
2	VPOS	OSD vertical position	0 - 255	11
3	VPOT	Vertical position for P&P (Twin) mode	0 - 255	29

SNNR

No.	Item	Function	Data Range	Data
	Name			
0	SNNR	SNNR Data Label	0 - 3	SNNR data Label
1	SNFX	Selection of SNNR data setting	0 - 1	Table 1
2	WSLT	Noise level detection data thresholds for SNNR data (read data)	0 - 255	Table 1
3	CPFG	Related to 3D-COMB (uPD64802) / 19_YPFG settings	0 - 7	Table 1
4	CPFT	Related to 3D-COMB (uPD64802) / 18_YPFT settings	0 - 3	Table 1
5	CCOR	Related to 3D-COMB (uPD64802) / 20_YHCO settings	0 - 3	Table 1
6	CHCG	Related to 3D-COMB (uPD64802) / 21_YHCG settings	0 - 1	Table 1
7	CAPG	Related to 3D-COMB (uPD64802) / 16_VAPG settings	0 - 4	Table 1
8	3SHP	Related to 2103 (CXA2103) / 6_SHAP settings	0 - 3	Table 1
9	MIDD	Related to VID ADJ / 4_MIDE setting	0 - 3	Table 1
10	USHS	Related to USER STD / 4_USHP setting	0 - 7	Table 1
11	NLMP	Related to TDA9178 / NLAMP setting	0 - 15	Table 1
12	PKNG	Related to TDA9178 / PKNG setting	0 - 15	Table 1
13	CRNG	Related to TDA9178 / CRNG setting	0 - 15	Table 1

Table 1

0	SNNR	SNNR Data Label (0 - 3)					SNNR data Label
1	SNFX	-					*1
			(WSLT : A)	(WSLT : B)	(WSLT : C)		
2	WSLT	Threshold of SNNR (0 - 255)	31	63	127		Threshold of SNNR *2
			(SNNR : 0)	(SNNR : 1)	(SNNR : 2)	(SNNR : 3)	
3	CPFG	uPD64082 : YPFG (0 - 7)	0	1	3	4	(-) Offset for uPD64082 : YPFG
4	CPFT	uPD64082 : YPFT (0 - 3)	0	0	0	0	(-) Offset for uPD64082 : YPFT
5	CCOR	uPD64082 : YHCOR (0 - 3)	0	1	1	1	Data for uPD64082 : YHCOR
6	CHCG	uPD64082 : YHCGAIN (0 - 1)	1	1	1	1	Data for uPD64082 : YHCGAIN
7	CAPG	uPD64082 : VAPGAIN (0 - 4)	0	0	0	0	(-) Offset for uPD64082 : VAPGAIN
8	3SHP	CXA2103 : SHAP (0 - 3)	0	1	2	3	(-) Offset for CXA2103 : SHAP
9	MIDD	VID ADJ : 4.MIDE (0 - 3)	0	0	0	0	(-) Offset for VDO ADJ : 4.MIDE *3
10	USHS	USER STD : 4.USHP (0 - 7)	0	2	5	6	x4 (-) Offset for USER STD 4 : USHP
11	NLMP	TDA9178 : NLAMP(0 - 15)	0	2	4	5	x2 (-) Offset for TDA9178 : NLAMP
12	PKNG	TDA9178 : PKNG(0 - 15)	0	2	3	4	x4 (-) Offset for TDA9178 : PKNG
13	CRNG	TDA9178 : CRNG(0 - 15)	0	2	5	4	x4 (+) Offset for TDA9178 : CRNG

*1 : SNFX =0 : SNNR will be controlled by Micro which depends on the value of WSLT.
 =1 : SNNR will be controlled with service.

*2: WSLT	SNFX=1 & SNNR=0 -> WSLT= --		SNFX=0 & 0 < WSL < A -> SNNR=0
	SNNR=1 -> WSLT= A	} Service	A < WSL < B -> SNNR=1
	SNNR=2 -> WSLT= B		B < WSL < C -> SNNR=2
	SNNR=3 -> WSLT= C		C < WSL < 255 -> SNNR=3

WSL Detection

10-time mean of the Return Data of 3D-Comb(SubAdd.01 "WSL") should be applied as the value of WSL.

Return Data should be detected in every 100msec, so WSL will be renewed in every 1sec.

*3 : MIDD	MIDE = 0 - 3	----->	MIDE = MIDE - MIDD
	MIDE = 4 - 7	----->	MIDE = MIDE - MIDD
	MIDE = 8 - 11	----->	MIDE = MIDE - MIDD
	MIDE = 12 - 15	----->	MIDE = MIDE - MIDD

ID1

Item		Function	Data Range	Data
No.	Name			
0	XJGL	Setting for memorizing or not the ID1 detection status	0 - 1	0
1	LNJ1	Setting for the multi/single line ID1 detection	0 - 1	0

CCD

Item		Function	Data Range	Data
No.	Name			
0	HPRM	Horizontal position of CCD (main)	0 - 255	46
1	HPRS	Horizontal position of CCD (sub)	0 - 255	46
2	RND	OSD rounding control	0 - 1	1
3	CCDI	Interruption control	0 - 7	3
4	CRIP	CRI count & parity count	0 - 7	4
5	CRIT	Charge/Discharge timing control for slice voltage level	0 - 1	0
6	CHMK	Horizontal mask width	0 - 63	42
7	FPOL	Field polarity selection	0 - 1	1
8	LANG			0
9	DATA	Switch for CCD service/test data	0 - 1	0
10	VCHP	Selection Vchip control	0 - 1	1

L001OUT

Item		Function	Data Range	Data
No.	Name			
0	OCKPN	Inverts OCK polarity	0 - 1	1
1	OSDCKPN	Inverts OSD CK polarity	0 - 1	0
2	FLENB	Pads the inside of OACTB with fill value	0 - 1	0
3	FLENA	Pads the inside of OACTA with fill value	0 - 1	0
4	MSKB	Pads the outside of OACTB with background value	0 - 1	0
5	ASL	Selects OACT to be outputted	0 - 3	0
6	OVSCYCL	Sets the cycle of output vertical sync signal (OVSB)	0 - 255	85
7	OVSCYCU	Sets the cycle of output vertical sync signal (OVSB)	0 - 15	3
8	OVSDLYEN	OVSDLY enable	0 - 1	1
9	IVSPRN	Disables the propagation of IVS signal to internal OVSB	0 - 1	0
10	OVPOL	Specifies the polarity of output vertical sync signal (OVSB)	0 - 1	0
11	OVSD	Specifies the output timing of OVSB	0 - 3	0
12	OVSWD	Specifies the number of lines for active period of OVSB	0 - 15	3
13	ACYC	Automatic cycle setting enable	0 - 1	0
14	OHPOL	Specifies the polarity of output horizontal sync signal (OHSB)	0 - 1	0
15	OHSWD	Specifies the number of lines for active period of OHSB	0 - 15	4
16	VHSAME	Outputs the output vertical sync signal (OVSB) simultaneously with the output horizontal sync signal (OHSB) at all times	0 - 1	1
17	OFLDP	Inverts the polarity of output field signal (OFLD)	0 - 1	0
18	HSCUT	Disables the output of OHSB generated simultaneously with OVSB	0 - 1	1
19	SYNGO	Enables the generation of OVSB and OHSB	0 - 1	1
20	SRES	Clears OHSMON and OLNMON registers to 0	0 - 1	0
21	MGREN	Enables OHS phase measurement and start point measurement of output active area (OACT) in vertical direction	0 - 1	1
22	OVFCHK	Resets the overflow check of line buffer	0 - 1	0
23	ATPOS	Enables automatic LNSEL setting	0 - 1	0
24	LNSEL	Sets line buffer read start position	0 - 7	3
25	OHSDLYL	Sets OHSB signal delay amount	0 - 255	0
26	OHSDLYU	Sets OHSB signal delay amount	0 - 15	0
27	OHSDLYEN	Enables OHSDLY set value	0 - 1	0
28	ATHDLY	Enables automatic OHSDLY setting	0 - 1	0

L001SCALE

Item		Function	Data Range	Data
No.	Name			
0	VSCLEN	Selects enable/disable of vertical interpolation	0 - 1	1
1	VBEN		0 - 1	0
2	VDECSFT	Specifies decimal point place of factor in vertical interpolation table	0 - 1	0
3	ODDINI	Specifies vertical scaling initial value for odd field	0 - 7	0
4	EVEINI	Specifies vertical scaling initial value for even field	0 - 7	4
5	HSCKL	Specifies horizontal scaling factor	0 - 255	0
6	HSCKM	Specifies horizontal scaling factor	0 - 255	0
7	HSCKU	Specifies horizontal scaling factor	0 - 3	1
8	HSCK SCLN	Selects enable/disable of horizontal enlarged interpolation	0 - 1	1
9	HSCK BEN		0 - 1	0
10	HSCK DECSFT	Specifies decimal point place of factor in vertical enlarged interpolation table	0 - 1	0
11	HKINI	Specifies horizontal enlargement initial value	0 - 7	0
12	HSRK SCLN	Selects enable/disable of horizontal reduced interpolation	0 - 1	1
13	HSRK DECSFT	Specifies decimal point place of factor in horizontal reduced interpolation table	0 - 1	0
14	HSRKINI	Specifies horizontal reduction initial value	0 - 7	0

L001ENH

Item		Function	Data Range	Data
No.	Name			
0	SCENH	Data table selection (Table2)	0 - 3	Table1
1	VCOFEN	Specifies vertical interpolation method	0 - 1	Table1
2	VCOFSEL	Data table selection of vertical interpolation	0 - 7	Table1
3	HCOFEN	Specifies horizontal enlarged interpolation method	0 - 1	Table1
4	HCOFSEL	Data table selection of horizontal interpolation	0 - 7	Table1
5	HSRK COFEN	Specifies horizontal reduced interpolation method	0 - 1	Table2
6	SVDANEN	Enables vertical coring (lower threshold)	0 - 1	Table2
7	SVDAN	Specifies lower threshold of brightness gap range for vertical contour accentuation	0 - 31	Table2
8	SVCLPEN	Enables vertical coring (upper threshold)	0 - 1	Table2
9	SVCLP	Specifies upper threshold of brightness gap range for vertical contour accentuation	0 - 31	Table2
10	SHDANEN	Enables horizontal coring (lower threshold)	0 - 1	Table2
11	SHDAN	Specifies lower threshold of brightness gap range for horizontal contour accentuation	0 - 31	Table2
12	SHCLPEN	Enables horizontal coring (upper threshold)	0 - 1	Table2
13	SHCLP	Specifies upper threshold of brightness gap range for horizontal contour accentuation	0 - 31	Table2
14	EYEN	Selects enable/disable of contour accentuation	0 - 1	Table2
15	EYMOD	Selects thin/thick of contour width	0 - 1	Table2
16	AOISEL	AOI control	0 - 3	Table2
17	EYD	Sets the degree of contour accentuation	0 - 7	Table2
18	YDANEN	Selects enable/disable of coring lower threshold	0 - 1	Table2
19	YDAN	Specifies lower threshold of brightness gap range for contour accentuation	0 - 31	Table2
20	HICLPEN	Selects enable/disable of coring upper threshold	0 - 1	Table2
21	HICLPH	Specifies upper threshold of brightness gap range for contour accentuation	0 - 31	Table2

L001Y

Item		Function	Data Range	Data
No.	Name			
0	SIGNA	Makes linear correction (addition) to brightness with positive/negative value	0 - 1	0
1	OFSETA	Makes linear correction (addition) to brightness with absolute value	0 - 127	0
2	SIGNB	Makes linear correction (addition) to brightness with positive/negative value	0 - 1	0
3	OFSETB	Makes linear correction (addition) to brightness with absolute value	0 - 127	0
4	GAINA	Makes linear correction (multiplication) to brightness	0 - 255	0
5	GAINB	Makes linear correction (multiplication) to brightness	0 - 255	0
6	BCUT	Clips BLUE to 0	0 - 1	0
7	GCUT	Clips GREEN to 0	0 - 1	0
8	RCUT	Clips RED to 0	0 - 1	0
9	RND	Enables 8 bits -> 6 bits forced round-down	0 - 1	0
10	DTH	Selects the mode for dithering	0 - 3	0

Table 1

		FULL , NORMAL											
		RF				Video				Component			
PICMD=		Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (4)	Standard (5)	Movie (6)	Mild (7)	Vivid (8)	Standard (9)	Movie (10)	Mild (11)
0	SCENH	1	1	1	1	1	1	1	1	1	1	1	1
1	VCOFEN	0	0	0	0	0	0	0	0	0	0	0	0
2	VCOFSEL	1	1	1	1	1	1	1	1	1	1	1	1
3	HCOFEN	1	1	1	1	1	1	1	1	1	1	1	1
4	HCOFSEL	0	0	0	0	0	0	0	0	0	0	0	0
		FULL , NORMAL											
		Component											
		480p				720p				1080i			
PICMD=		Vivid (12)	Standard (13)	Movie (14)	Mild (15)	Vivid (16)	Standard (17)	Movie (18)	Mild (19)	Vivid (20)	Standard (21)	Movie (22)	Mild (23)
0	SCENH	1	1	1	1	4	4	5	1	0	0	1	1
1	VCOFEN	0	0	0	0	0	0	0	0	0	0	0	0
2	VCOFSEL	1	1	1	1	1	1	1	1	5	5	1	1
3	HCOFEN	1	1	1	1	1	1	1	1	1	1	1	1
4	HCOFSEL	0	0	0	0	0	0	0	0	0	0	0	0
		WIDE ZOOM , ZOOM											
		RF				Video				Component			
										480i			
PICMD=		Vivid (24)	Standard (25)	Movie (26)	Mild (27)	Vivid (28)	Standard (29)	Movie (30)	Mild (31)	Vivid (32)	Standard (33)	Movie (34)	Mild (35)
0	SCENH	1	1	1	1	1	1	1	1	1	1	1	1
1	VCOFEN	0	0	0	0	0	0	0	0	0	0	0	0
2	VCOFSEL	1	1	1	1	1	1	1	1	1	1	1	1
3	HCOFEN	1	1	1	1	1	1	1	1	1	1	1	1
4	HCOFSEL	0	0	0	0	0	0	0	0	0	0	0	0
		WIDE ZOOM , ZOOM											
		Component											
		480p				720p				1080i			
PICMD=		Vivid (36)	Standard (37)	Movie (38)	Mild (39)	Vivid (40)	Standard (41)	Movie (42)	Mild (43)	Vivid (44)	Standard (45)	Movie (46)	Mild (47)
0	SCENH	1	1	1	1	4	4	5	1	0	0	1	1
1	VCOFEN	0	0	0	0	0	0	0	0	0	0	0	0
2	VCOFSEL	1	1	1	1	1	1	1	1	5	5	1	1
3	HCOFEN	1	1	1	1	1	1	1	1	1	1	1	1
4	HCOFSEL	0	0	0	0	0	0	0	0	0	0	0	0
		Twin Picture , Freeze											
						Index				Favorite			
PICMD=		Vivid (48)	Standard (49)	Movie (50)	Mild (51)	Vivid (52)	Standard (53)	Movie (54)	Mild (55)	Vivid (56)	Standard (57)	Movie (58)	Mild (59)
0	SCENH	1	1	1	1	1	1	1	1	1	1	1	1
1	VCOFEN	0	0	0	0	0	0	0	0	0	0	0	0
2	VCOFSEL	1	1	1	1	1	1	1	1	1	1	1	1
3	HCOFEN	1	1	1	1	1	1	1	1	1	1	1	1
4	HCOFSEL	0	0	0	0	0	0	0	0	0	0	0	0

Table 2

0	SCENH=	0	1	2	3	4	5	6	7	8	9
5	HSRK COFEN	0	0	0	0	0	0	0	0	0	0
6	SVDANEN	0	0	0	0	0	0	0	0	0	0
7	SVDAN	28	28	28	28	28	28	0	0	0	0
8	SVCLPEN	0	0	0	0	0	0	0	0	0	0
9	SVCLP	5	5	5	5	5	5	0	0	0	0
10	SHDANEN	0	0	0	0	0	0	0	0	0	0
11	SHDAN	28	28	28	28	28	28	0	0	0	0
12	SHCLPEN	0	0	0	0	0	0	0	0	0	0
13	SHCLP	5	5	5	5	5	5	0	0	0	0
14	EYEN	1	0	1	1	1	1	0	0	0	0
15	EYMOD	0	0	1	1	1	1	0	0	0	0
16	AOISEL	0	0	0	0	0	0	0	0	0	0
17	EYD	3	0	4	3	2	1	0	0	0	0
18	YDANEN	1	0	1	1	0	0	0	0	0	0
19	YDAN	3	0	2	2	0	0	0	0	0	0
20	HICLPEN	0	0	0	0	0	0	0	0	0	0
21	HICLPH	31	31	31	31	31	31	0	0	0	0
0	SCENH=	10	11	12	13	14	15				
5	HSRK COFEN	0	0	0	0	0	0				
6	SVDANEN	0	0	0	0	0	0				
7	SVDAN	0	0	0	0	0	0				
8	SVCLPEN	0	0	0	0	0	0				
9	SVCLP	0	0	0	0	0	0				
10	SHDANEN	0	0	0	0	0	0				
11	SHDAN	0	0	0	0	0	0				
12	SHCLPEN	0	0	0	0	0	0				
13	SHCLP	0	0	0	0	0	0				
14	EYEN	0	0	0	0	0	0				
15	EYMOD	0	0	0	0	0	0				
16	AOISEL	0	0	0	0	0	0				
17	EYD	0	0	0	0	0	0				
18	YDANEN	0	0	0	0	0	0				
19	YDAN	0	0	0	0	0	0				
20	HICLPEN	0	0	0	0	0	0				
21	HICLPH	0	0	0	0	0	0				

L001IN

Item		Function	Data Range	Data
No.	Name			
0	SYNSEL	Selects sync signal (IVS, HIS, IACT, IFLD) input pin	0 - 3	0
1	CLKSEL	Selects clock pin	0 - 1	0
2	IMACTP	Specifies IACT pin polarity for pulse width measurement	0 - 1	0
3	IMHSP	Specifies IHSP pin polarity for pulse width measurement	0 - 1	0
4	IMVSP	Specifies IVSB pin polarity for pulse width measurement	0 - 1	0
5	IFLDP	Specifies IFLD pin polarity	0 - 1	0
6	IACTP	Specifies IACT pin polarity	0 - 1	0
7	IHSP	Specifies IHSP pin polarity	0 - 1	0
8	IVSP	Specifies IVSB pin polarity	0 - 1	0
9	ASEL	Selects input ACT	0 - 1	0
10	COMMOD	Selects false sync signal input waveform	0 - 1	0
11	VSEL	Selects input vertical sync signal	0 - 1	0
12	HSEL	Selects input horizontal sync signal	0 - 3	0
13	COMIN	Selects false sync signal input pin	0 - 3	0
14	IFLDL	Sets when field signal is automatically generated in LSI	0 - 255	24
15	IFLDU	Sets when field signal is automatically generated in LSI	0 - 15	0
16	FUSE	Selects the signal selected by IFSEL as field signal used in LSI, or the FVAL value	0 - 1	0
17	FVAL	Specifies field signal value used in LSI	0 - 1	0
18	IFSEL	Selects the signal entered from IFLD pin as input field signal or the signal automatically generated in LSI	0 - 1	1
19	OFINV	Inverts field signal automatically generated in LSI	0 - 1	0
20	VSDLYEN	Enables IVSDLY set value	0 - 1	1
21	ASYNHS	Specifies sync method when IVS propagates in LSI	0 - 1	0
22	IVSDLY	Sets the delay amount with number of lines at which IVS propagates in LSI	0 - 63	3
23	IVSGENL	Specifies the timing with clocks (ICK) at which false IVS signal is generated	0 - 255	0
24	IVSGENU	Specifies the timing with clocks (ICK) at which false IVS signal is generated	0 - 255	0
25	OBN	Sets frequency dividing ratio to generate OCK	0 - 3	1
26	HBN	Sets frequency dividing ratio of clock (HCK) used when shaping waveform of COMSYN input pin or generating clamp pulses	0 - 1	0
27	PLLDIV	Sets multiplier for REFCK	0 - 7	3
28	OVSRG	Specifies propagation method of the register having OVS sync control	0 - 3	0
29	IVSRG	Specifies propagation method of the register having IVS sync control	0 - 3	0

L001OPT

Item		Function	Data Range	Data
No.	Name			
0	ERREN	Selects enable/disable of error diffusion	0 - 1	0
1	GMMEN	Selects enable/disable of gamma correction	0 - 1	0
2	YADEN	Selects enable/disable of brightness nonlinear correction	0 - 1	0
3	GNEN	Selects enable/disable of brightness gain	0 - 1	0
4	OFEN	Selects enable/disable of brightness offset	0 - 1	0
5	ACREN	Selects enable/disable of ACR	0 - 1	0
6	FCTEN	Selects enable/disable of FCT	0 - 1	0
7	FCTSL	Hue adjustment	0 - 63	0
8	IOSDEN	Selects enable/disable of internal OSD	0 - 1	0
9	EOSDEN	Selects enable/disable of external OSD	0 - 1	0

L001OACT

Item		Function	Data Range	Data
No.	Name			
0	OACTAVSTL	Sets output image start point coordinate in vertical direction	0 - 255	0
1	OACTAVSTU	Sets output image start point coordinate in vertical direction	0 - 15	0
2	AVST ATEN	Enables auto setting of output image start point coordinate in vertical direction	0 - 1	1
3	OACTAVWL	Sets output image vertical width	0 - 255	27
4	OACTAVWU	Sets output image vertical width	0 - 15	3
5	AVW POL	Sets polarity of OACT pin	0 - 1	0
6	OACTAHSTL	Sets output image start point coordinate in horizontal direction	0 - 255	102
7	OACTAHSTU	Sets output image start point coordinate in horizontal direction	0 - 15	0
8	OACTAHWL	Sets output image horizontal width	0 - 255	171
9	OACTAHWU	Sets output image horizontal width	0 - 15	2

L001AOI

Item		Function	Data Range	Data
No.	Name			
0	YUVIN	Specifies YUV input order at input of YUV 8 bits or YUV 16 bits	0 - 3	0
1	YUVSEL	Selects YUV 8 bit input or YUV 24 bit input	0 - 1	0
2	YUVEN	Selects YUV input or RGB input	0 - 1	0
3	ISTPR	Select input mode of RGB or YUV	0 - 1	0
4	ICLRS	Rearranges input image data (ID pin)	0 - 1	0
5	IBYTS	Rearranges input image data (ID pin)	0 - 1	1
6	IBITS	Rearranges input image data (ID pin)	0 - 1	1
7	LVDS	Changes pin arrangement of each color	0 - 1	0
8	OSTPR	Selects RGB 48/24 bit output	0 - 1	0
9	OCLRS	Rearranges output image data (OD pin)	0 - 1	1
10	OBYTS	Rearranges output image data (OD pin)	0 - 1	1
11	OBITS	Rearranges output image data (OD pin)	0 - 1	0
12	HMASTL	Sets the time from COMSYN signal active edge to mask start	0 - 255	0
13	HMASTU	Sets the time from COMSYN signal active edge to mask start	0 - 15	0
14	HMAWL	Sets active period of mask signal	0 - 255	0
15	HMAWU	Sets active period of mask signal	0 - 15	0
16	HSCSTL	Sets the time from COMSYN signal active edge to HS generation	0 - 255	0
17	HSCSTU	Sets the time from COMSYN signal active edge to HS generation	0 - 15	0
18	HSCWL	Selects active period of HS to be generated	0 - 255	0
19	HSCWU	Selects active period of HS to be generated	0 - 15	0
20	SPOL	Specifies polarity of HS to be generated	0 - 1	0
21	CPOL	Specifies polarity of sync signal entered from COMSYN pin	0 - 1	0
22	VSCSTL	Sets the time from recognition of vertical sync signal start point from COMSY signal to VS generation	0 - 255	0
23	VSCSTU	Sets the time from recognition of vertical sync signal start point from COMSY signal to VS generation	0 - 15	0
24	VSCW POL	Specifies polarity of VS to be generated	0 - 1	0
25	VSCW	Selects active period of VS to be generated	0 - 15	0

L001POS S

Item		Function	Data Range	Data
No.	Name			
0	IACTAHSTL	Sets input image start point coordinate in horizontal direction	0 - 255	Table 3
1	IACTAHSTU	Sets input image start point coordinate in horizontal direction	0 - 15	Table 3
2	IACTAVSTL	Sets input image start point coordinate in vertical direction	0 - 255	Table 3
3	IACTAVSTU	Sets input image start point coordinate in vertical direction	0 - 15	Table 3
4	OVSPLY	Sets delay of OVSB signal	0 - 255	Table 3
5	OHSCYCL	Sets cycle of output horizontal sync signal (OHSB)	0 - 255	Table 3
6	OHSCYCU	Sets cycle of output horizontal sync signal (OHSB)	0 - 15	Table 3
7	VSCKL	Specifies vertical scaling factor (enlargement/reduction)	0 - 255	Table 3
8	VSCKM	Specifies vertical scaling factor (enlargement/reduction)	0 - 255	Table 3
9	VSCKU	Specifies vertical scaling factor (enlargement/reduction)	0 - 3	Table 3
10	HSRKL	Specifies horizontal reduction ratio	0 - 255	Table 3
11	HSRKM	Specifies horizontal reduction ratio	0 - 255	Table 3
12	HSRKU	Specifies horizontal reduction ratio	0 - 3	Table 3
13	IACTAVWL	Sets input image vertical width	0 - 255	Table 3
14	IACTAVWU	Sets input image vertical width	0 - 15	Table 3
15	IACTAHWL	Sets input image horizontal width	0 - 255	Table 3
16	IACTAHWU	Sets input image horizontal width	0 - 15	Table 3

Table 3

	SCMD=	Normal					Full					Wide Zoom				
		480i		480p (2)	720p (3)	1080i (4)	480i		480p (7)	720p (8)	1080i (9)	480i		480p (12)	720p (13)	1080i (14)
		Except Mild (0)	Mild (1)				Except Mild (5)	Mild (6)				Except Mild (10)	Mild (11)			
0	IACHTASTL	127	129	127	-	-	127	125	124	127	127	127	125	124	-	-
1	IACHTASTU	0	0	0	-	-	0	0	0	0	0	0	0	0	-	-
2	IACHTAVSTL	24	24	24	-	-	24	24	24	24	30	24	24	24	-	-
3	IACHTAVSTU	0	0	0	-	-	0	0	0	0	0	0	0	0	-	-
4	OVSPLY	22	24	20	-	-	22	24	20	21	27	21	23	19	-	-
5	OHSCYCL	35	35	35	-	-	35	35	35	35	30	35	35	35	-	-
6	OHSCYCU	3	3	3	-	-	3	3	3	3	3	3	3	3	-	-
7	VSCKL	0	0	0	-	-	0	0	0	0	85	0	0	0	-	-
8	VSCKM	154	154	154	-	-	154	154	154	154	172	154	154	154	-	-
9	VSCKU	0	0	0	-	-	0	0	0	0	0	0	0	0	-	-
10	HSRKL	118	118	118	-	-	118	118	118	118	21	118	118	118	-	-
11	HSRKM	79	79	79	-	-	79	79	79	79	88	79	79	79	-	-
12	HSRKU	1	1	1	-	-	1	1	1	1	1	1	1	1	-	-
13	IACHTAVWL	207	207	207	-	-	207	207	207	207	6	207	207	207	-	-
14	IACHTAVWU	1	1	1	-	-	1	1	1	1	2	1	1	1	-	-
15	IACHTAHL	127	127	127	-	-	127	127	127	127	150	127	127	127	-	-
16	IACHTAHU	3	3	3	-	-	3	3	3	3	3	3	3	3	-	-

	SCMD=	Zoom					PAP	Freeze	Index	Favorite
		480i		480p	720p	1080i				
		Except Mild	Mild							
0	IACTAHSTL	127	125	124	-	-	122	108	126	124
1	IACTAHSTU	0	0	0	-	-	0	0	0	0
2	IACTAVSTL	24	24	24	-	-	21	21	24	24
3	IACTAVSTU	0	0	0	-	-	0	0	0	0
4	OVSPLY	20	22	18	-	-	17	17	21	19
5	OHSCYCL	35	35	35	-	-	44	44	35	35
6	OHSCYCU	3	3	3	-	-	3	3	3	3
7	VSCKL	0	0	0	-	-	0	0	0	0
8	VSCKM	154	154	154	-	-	156	156	154	154
9	VSCKU	0	0	0	-	-	0	0	0	0
10	HSRKL	118	118	118	-	-	118	213	118	118
11	HSRKM	79	79	79	-	-	79	88	79	79
12	HSRKU	1	1	1	-	-	1	1	1	1
13	IACTAVWL	207	207	207	-	-	213	213	207	207
14	IACTAVWU	1	1	1	-	-	1	1	1	1
15	IACTAHWL	127	127	127	-	-	127	152	127	127
16	IACTAHWU	3	3	3	-	-	3	3	3	3

HV POS AD

Item		Function	Data Range	Data
No.	Name			
0	H POS ADJ	Adjustment item for H position	0 - 255	128
1	V POS ADJ	Adjustment item for V position	0 - 255	128

PLL-C

Item		Function	Data Range	Data
No.	Name			
0	VCOL	Counter L	0 - 255	Table 1
1	VCOH	Counter H	0 - 15	Table 1
2	DIV	Divider	0 - 3	2
3	CODL	Delay	0 - 3	0
4	FIDL	Fine delay	0 - 31	Table 1
5	PPOL	Phase comp input polarity set	0 - 1	1
6	CPMP	Charge pump	0 - 3	2
7	UNLO	Unlock out on/off	0 - 1	1
8	DSYN	Delay sync on/off	0 - 1	1
9	CL2	1/2 TTL clock on/off	0 - 1	1
10	DSYP	Delay sync output polarity	0 - 1	0
11	SYP	Input sync polarity	0 - 1	0

Table 1

	WIDE=	Normal, Full, Wide Zoom, Zoom				PAP, Freeze, Index, Favorite
	SCMD=	480i	480p	720p	1080i	
	PLLMD=	(0)	(1)	(2)	(3)	(4)
0	VCOL	162	162	162	144	162
1	VCOH	9	9	9	8	9
4	FIDL	14	14	14	14	14

D-GM TG

Item		Function	Data Range	Data
No.	Name			
0	INV CTL	Invert control	0 - 1	0
1	POS CTL	Position control	0 - 15	11
2	H POS	TG H position	0 - 255	11
3	V POS H	TG V position H	0 - 255	4
4	V POS D	TG V position dot	0 - 255	30
5	HST POL	HST polarity	0 - 1	0
6	HCK W	HCK width	0 - 1	0
7	HST POS	HST position	0 - 63	15
8	HCK POL	HCK polarity	0 - 1	1
9	HCK A-INV	HCK auto invert	0 - 1	0
10	VST POL	VST polarity	0 - 1	0
11	VST A-INV	VST auto invert	0 - 1	0
12	HST PHA	HST phase	0 - 15	1
13	VCK POL	VCK polarity	0 - 1	0
14	VST POS	VST position	0 - 127	3
15	ENB POS	EMB position	0 - 255	5
16	ENB W	EMB width	0 - 255	40
17	BLK ON	BLK on	0 - 1	0
18	BLK POL	BLK polarity	0 - 1	0
19	PCG POS	PCG position	0 - 63	2
20	PCG B-OR	PCG BLK or	0 - 1	0
21	PCG B-SEL	PCG BLK select	0 - 1	0
22	PCG W	PCG width	0 - 63	3
23	PRG POS	PRG position	0 - 63	0
24	PRG B-OR	PRG BLK or	0 - 1	0
25	PRG B-SEL	PRG BLK select	0 - 1	0
26	PRG W	PRG width	0 - 63	9
27	BLK POS	BLK position	0 - 255	0
28	BLK W	BLK width	0 - 255	0
29	CLR W	CLR width	0 - 255	0

D-GM IM

Item		Function	Data Range	Data
No.	Name			
0	V-ST-POS	V start position	0 - 255	15
1	H-ST-POS	H start position	0 - 255	100
2	SUB CON	Sub contrast level	0 - 63	32
3	SUB BRT	Sub brightness level	0 - 63	13
4	V BLKT H	V blanking position top	0 - 255	0
5	V BLKT L	V blanking position top2	0 - 3	0
6	V BLKB H	V blanking position bottom	0 - 255	0
7	V BLKB L	V blanking position bottom2	0 - 3	0
8	H BLKL H	H blanking position left	0 - 255	0
9	H BLKL L	H blanking position left2	0 - 3	0
10	H BLKR H	H blanking position right	0 - 255	0
11	H BLKR L	H blanking position right2	0 - 3	0
12	ASL SW	ASL switch	0 - 1	0
13	ASL SEL	ASL select	0 - 3	0
14	B PIC LV	Blue picasl level	0 - 15	0
15	B BRT LV	Blue brtasl level	0 - 15	15
16	G PIC LV	Green picasl level	0 - 15	0
17	G BRT LV	Green brtasl level	0 - 15	15
18	R PIC LV	Red picasl level	0 - 15	0
19	R BRT LV	Red brtasl level	0 - 15	15
20	PIC AREA	Picasl area	0 - 7	7
21	BRT AREA	Brtasl area	0 - 7	7
22	PIC ST	Picasl start timing	0 - 3	0
23	BRT ST	Brtasl start timing	0 - 3	0
24	PRE SL	Pre slope	0 - 3	3
25	POST SL	Post slope	0 - 3	3
26	APC MODE	APC mode	-	Table2
27	APC TH	APC threshold	0 - 255	Table1
28	APC LIMT	APC limiter	0 - 63	Table1
29	APC LEV	APC level	0 - 255	Table1
30	G-PICT	Picture	0 - 127	100
31	G-BRIGHT	Brightness	0 - 127	57

Table1

26	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
27	APC TH	255	10	10	10	5	5	10	10	10	10	10	10	10	10	10	10
28	APC LIMT	0	20	20	30	30	30	30	30	30	30	30	30	30	30	30	30
29	APC LEV	0	80	60	45	45	100	45	45	45	45	45	45	45	45	45	45

Table2

26	APC MODE	FULL,NORMAL (0 or 2)															
		RF (0)				Video (1)				Component (8)							
		-				-				480i (0)				480p (1)			
		Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)
		3	3	3	3	3	3	3	3	4	4	3	5	4	4	3	5
26	APC MODE	FULL,NORMAL (0 or 2)								WIDE ZOOM,ZOOM (3 or 6)							
		Component (8)				RF (0)				Video (1)				-			
		720p (4)				1080i (3)				-				-			
		Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)
		3	3	3	3	1	1	3	3	3	3	3	3	3	3	3	3
26	APC MODE	WIDE ZOOM,ZOOM (3 or 6)															
		Component (8)								720p (4)							
		480i (0)				480p (1)				1080i (3)				-			
		Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)
		4	4	3	5	4	4	3	5	3	3	3	3	1	1	3	3
26	APC MODE	Twin Picture,Freeze (8 or 9)															
		Index (10)				Favorite (11)				-				-			
		-				-				-				-			
		Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)	Vivid (0)	Standard (1)	Movie (2)	Mild (3)
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

D-GM WB

Item		Function	Data Range	Data
No.	Name			
0	B GAIN (*1)	White balance gain blue	0 - 255	127
1	G GAIN (*1)	White balance gain green	0 - 255	127
2	R GAIN (*1)	White balance gain red	0 - 255	127
3	B BIAS (*1)	White balance bias blue	0 - 255	85
4	G BIAS (*1)	White balance bias green	0 - 255	85
5	R BIAS (*1)	White balance bias red	0 - 255	85
6	B GAIN M	White balance gain blue	-	96
7	G GAIN M	White balance gain green	-	115
8	R GAIN M	White balance gain red	-	132
9	B BIAS M	White balance bias blue	-	128
10	G BIAS M	White balance bias green	-	127
11	R BIAS M	White balance bias red	-	122
12	B GAIN L	White balance gain blue	-	80
13	G GAIN L	White balance gain green	-	126
14	R GAIN L	White balance gain red	-	165
15	B BIAS L	White balance bias blue	-	119
16	G BIAS L	White balance bias green	-	127
17	R BIAS L	White balance bias red	-	136

*1: Adjustable, but not used on service.

D-GM TEST

Item		Function	Data Range	Data
No.	Name			
0	REF PER	Refresh permission	0 - 1	1
1	REF LENG	Refresh length	0 - 7	0
2	G-LUT SW	Gamma LUT through	0 - 1	0
3	CORR WGT	Correct weight	0 - 3	2
4	SHAD SW	Shading switch	0 - 1	0
5	3D-G SW	3D gamma switch	0 - 1	0
6	3D-G Z	3D gamma mode Z	0 - 1	0
7	3D-G VH	3D gamma mode VH	0 - 1	0
8	3D-G BS	3D gamma block size	0 - 1	1
9	AGC P SW	AGC pulse switch	0 - 1	0
10	AGC SHP POS	AGC SH pulse position	0 - 127	40
11	AGC SHP SEL	AGC SH pulse select	0 - 3	1
12	AGC SHP W	AGC SH pulse width	0 - 63	2

D-GM TPN

Item		Function	Data Range	Data
No.	Name			
0	T-PATN SW	Test pattern switch	0 - 1	0
1	T-SIG SEL	Test signal select	0 - 7	1
2	PATN DIR	Pattern direction	0 - 1	1
3	SIG LV DIR	Signal level direction	0 - 1	0
4	T-PATN PIT	Test pattern pitch	0 - 255	144
5	B-LV	Blue test pattern level	0 - 63	25
6	G-LV	Green test pattern level	0 - 63	25
7	R-LV	Red test pattern level	0 - 63	25
8	T-PATN RGB	RGB test enable	0 - 7	7

D-GM CUR

Item		Function	Data Range	Data
No.	Name			
0	CRIP	Frame crip	0 - 1	1
1	CUR TOP	Frame cursor top	0 - 1	0
2	CUR BOT	Frame cursor bottom	0 - 1	0
3	CUR L	Frame cursor left	0 - 1	0
4	CUR R	Frame cursor right	0 - 1	0
5	FPOS TOP U	Frame position top (High bit)	0 - 255	3
6	FPOS TOP L	Frame position top (Low bit)	0 - 7	0
7	FPOS BOT U	Frame position bottom (High bit)	0 - 255	92
8	FPOS BOT L	Frame position bottom (Low bit)	0 - 7	7
9	FPOS LEFT U	Frame position left (High bit)	0 - 255	5
10	FPOS LEFT L	Frame position left (Low bit)	0 - 7	3
11	FPOS RIGHT U	Frame position right (High bit)	0 - 255	165
12	FPOS RIGHT L	Frame position right (Low bit)	0 - 7	2
13	FCUR SIZE		0 - 1	0
14	CR CUR SIZE		0 - 3	3
15	CR CUR ON		0 - 1	0
16	CR VPOS U		0 - 255	48
17	CR VPOS L		0 - 7	0
18	CR HPOS U		0 - 255	85
19	CR HPOS L		0 - 7	2
20	OSD B	Blue OSD level	0 - 31	25
21	OSD G	Green OSD level	0 - 31	25
22	OSD R	Red OSD level	0 - 31	25
23	OSD YM	Picture half tone level	0 - 7	0
24	OSD I	OSD half tone level	0 - 7	3

H POS SHI

Item		Function	Data Range	Data
No.	Name			
0	VAR POS-CTL	Table select	0 - 15	Table 1
1	D-GM HP	Position control shift	0 - 15	Table 1

Table 1

0	VAR POS-CTL=	0	1	2	3	4	5	6	7
1	D-GM HP	9	9	8	8	7	7	6	6
0	VAR POS-CTL=	8	9	10	11	12	13	14	15
1	D-GM HP	11	11	10	10	11	11	10	10

SH SET

Item		Function	Data Range	Data
No.	Name			
0	SH	Table select	0 - 6	Table 1
1	SHIFT SET	Position control shift model select	0 - 31	Table 1

Table 1

0	SH=	0	1	2	3	4	5	6	7
1	SHIFT SET	15	16	17	18	16	16	16	16

LCD-DR

Item		Function	Data Range	Data
No.	Name			
0	FRP CNT	FR pulse control	0 - 1	0
1	R VCOM (*1)	V COM adjustment (R)	0 - 255	127
2	R ODD VR	ODD adjustment (R)	0 - 255	50
3	R EVEN VR	EVEN adjustment (R)	0 - 255	50
4	R DLY CNT	DELAY control (R)	0 - 255	127
5	R DA VSET (*1)	D/A voltage set (R)	0 - 255	220
6	G VCOM (*1)	V COM adjustment (G)	0 - 255	127
7	G ODD VR	ODD adjustment (G)	0 - 255	50
8	G EVEN VR	EVEN adjustment (G)	0 - 255	50
9	G DLY CNT	DELAY control (G)	0 - 255	127
10	G DA VSET (*1)	D/A voltage set (G)	0 - 255	220
11	B VCOM (*1)	V COM adjustment (B)	0 - 255	127
12	B ODD VR	ODD adjustment (B)	0 - 255	105
13	B EVEN VR	EVEN adjustment (B)	0 - 255	105
14	B DLY CNT	DELAY control (B)	0 - 255	127
15	B DA VSET (*1)	D/A voltage set (B)	0 - 255	195
16	R VREF SEL	Voltage ref select (R)	0 - 1	0
17	G VREF SEL	Voltage ref select (G)	0 - 1	0
18	B VREF SEL	Voltage ref select (B)	0 - 1	0

*1: Adjustable, but not used on service.

LM75 (TEMP)

Item		Function	Data Range	Data
No.	Name			
0	SET	Temperature switching to maximum velocity of wind	0 - 99	42 DEC
1	TIME	Time to keep maximum velocity of wind and to detect	0 - 99	10 MIN

OSD-E

Item		Function	Data Range	Data
No.	Name			
0	VPOS	Engine service indication V position	0 - 255	8
1	HPOS	Engine service indication H position	0 - 255	22

OPTION-E

Item		Function	Data Range	Data
No.	Name			
0	LAMP TIME	Lamp lighting time		0
1	LAMP OFF	Time from power off to lamp off (0 : 0 sec, 1 : 5 sec)	0 - 255	1
2	FAN OFF	Time to FAN stop (0 : 2 min, 1 : 2 min)	0 - 255	0
3	FAN1 RPM1	Rotating speed of FAN for optics on normal condition	0 - 3	2
4	FAN1 RPM2	Rotating speed of FAN for optics after power off	0 - 3	2
5	FAN2 RPM1	Rotating speed of FAN for lamp on normal condition	0 - 3	1
6	FAN2 RPM2	Rotating speed of FAN for lamp after power off	0 - 3	1
7	FLAG1	Not used on service	0 - 255	0
8	AGING PT	Not used on service	0 - 255	0
9	TEMP SHIFT	Temperature shift for LCD panel drive	0 - 255	1
10	ADJ	Not used on service	0 - 1	0
11	P CTL SHT1	LCD panel age-based change (position control) correction 1	0 - 255	10
12	P CTL SHT2	LCD panel age-based change (position control) correction 2	0 - 255	60

OP

Item		Function	Data Range	Data
No.	Name			
0	DLY1	Power on to relay timing = DLY1 x 50ms	0 - 15	4
1	DLY2	Power on mute timing = DLY2 x 50ms	0 - 31	12
2	DLY3	Relay on to start bus communication	0 - 15	7
3	AGC		0 - 255	255
4	RAMW		0 - 1	0

ID

Item		Function	Data Range	Data
No.	Name			
0	ID0	Selection of OSD languages & color system	0 - 255	89
1	ID1	Selection of composite & S-Video inputs	0 - 255	127
2	ID2	Selection of audio related controls	0 - 255	239
3	ID3	Selection of basic system settings	0 - 255	98
4	ID4	Selection of basic system settings	0 - 255	203
5	ID5	Selection of advanced system settings	0 - 255	177
6	ID6	Selection of sub picture related settings	0 - 255	54
7	ID7	Selection of some reserved settings	0 - 255	24

3-2. CHASSIS PICTURE QUALITY ADJUSTMENT

3-2-1. White Level Adjustment

1. Preparation

- Before adjustment, set the following adjustment conditions in each mode.

Note: After the adjustment in 3-2-1. White Level Adjustment, restore original data in each mode.

Adjustment conditions

Category	Item	Data
P-BOOST1	0 BSET	0
MCP-ADJ1	2 GDRV	50
	3 GCUT	40
VID ADJ	1 GAM	0
	2 DCTN	0
	3 DPIC	0

- Connect an oscilloscope to the CN702 pin ③ (TP743) on the BB board.

2. RF Input Adjustment

- Enter the RF color bar (75%) signal, and set the PICTURE MODE to “Vivid”.
- Set the adjustment conditions in 1. Preparation, and further set the following data.

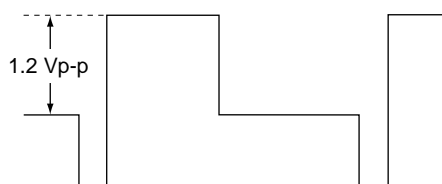
Adjustment conditions

Category	Item	Data
2103-1	22 ATPD	0
	23 DCTR	0
2103-2	22 ATPD	0
	23 DCTR	0

- Press the **[TWIN]** button on the remote commander to display color bar on the left and right two screens.
- Measure the waveform, and adjust so that a difference between black level and white level is 1.2 Vp-p ± 1 STEP.

Adjustment positions

	Category	tem
Left screen	2103-1	2 SCON
Right screen	2103-2	2 SCON



- After the adjustment finished, return the data set in 2) to original values, and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

3. Video Input Adjustment

- Enter the Video STEP (100%) signal (including 0IRE and 100IRE), and set the PICTURE MODE to “Vivid”.
- Set the adjustment conditions in 1. Preparation, and further set the following data.

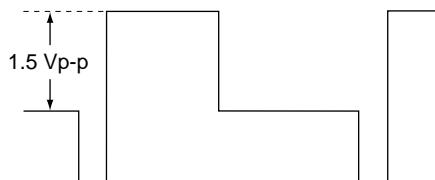
Adjustment conditions

Category	Item	Data
2103-1	22 ATPD	0
	23 DCTR	0
2103-2	22 ATPD	0
	23 DCTR	0

- Press the **[TWIN]** button on the remote commander to display the STEP signal on the left and right two screens.
- Measure the waveform, and adjust so that a difference between black level and white level is 1.5 Vp-p ± 1 STEP.

Adjustment positions

	Category	tem
Left screen	2103-1	2 SCON
Right screen	2103-2	2 SCON



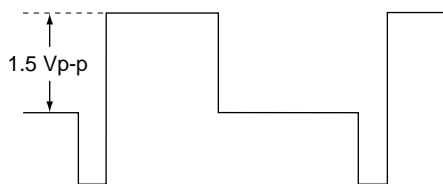
- After the adjustment finished, return the data set in 2) to original values, and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

4. Component Input Adjustment

- 1) Enter the Component 480i STEP (100%) signal (including 0IRE and 100IRE), and set the PICTURE MODE to “Vivid”.
- 2) Set the adjustment conditions in 1. Preparation.
- 3) Measure the waveform, and adjust so that a difference between black level and white level is $1.5 \text{ Vp-p} \pm 1 \text{ STEP}$.

Adjustment position

Category	Item
2103-1	2 YLEV



- 4) After the adjustment finished, return the data set in 2) to original values, and write the data by pressing the [MUTE] + [ENTER] buttons on the remote commander.
- 5) Change over the PICTURE MODE to “Mild”, and perform the steps 2) to 4).

3-2-2. Sub Color/Sub Hue Adjustment

1. Preparation

- 1) Before adjustment, set the following adjustment conditions in each mode.

Note: After the adjustment in 3-2-2. Sub Color/Sub Hue Adjustment, restore original data in each mode.

Adjustment conditions

PICTURE MODE: Vivid

Category	Item	Data
MCP-ADJ1	2 GDRV	50
	3 GCUT	40
VID ADJ	1 GAM	0
	2 DCTN	0
	3 DPIC	0
USER STD	2 UCOL	31
	3 UHUE	31
	9 UCOF	31
	10 UHOF	31

- 2) Connect an oscilloscope to the CN702 pin ① (TP744) on the BB board.

2. RF Input Adjustment

- 1) Enter the RF color bar (75%) signal.
- 2) Set the adjustment conditions in 1. Preparation, and further set the following data.

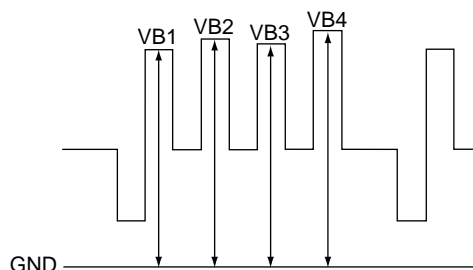
Adjustment conditions

Category	Item	Data
P-BOOST1	0 BSET	0
2103-1	22 ATPD	0
	23 DCTR	0
2103-2	22 ATPD	0
	23 DCTR	0

- 3) Press the [TWIN] button on the remote commander to display color bar on the left and right two screens.
- 4) Measure the waveform, and repeat the SCOL and SHUE adjustments so that $VB1 = VB4$, and $VB2 = VB3$.

Adjustment positions

	Category	tem
Left screen	2103-1	3 SCOL
		4 SHUE
Right screen	2103-2	3 SCOL
		4 SHUE



- 5) After the adjustment finished, return the data set in 2) to original values, and write the data by pressing the [MUTE] + [ENTER] buttons on the remote commander.

3. Video Input Adjustment

- 1) Enter the Video color bar (100%) signal.
- 2) Set the adjustment conditions in 1. Preparation, and further set the following data.

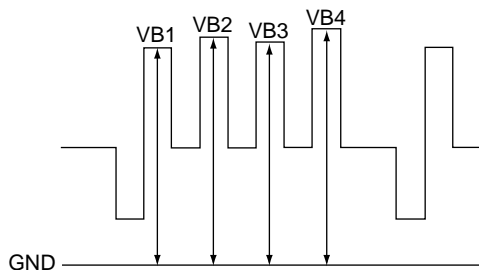
Adjustment conditions

Category	Item	Data
P-BOOST1	0 BSET	0
2103-1	22 ATPD	0
	23 DCTR	0
2103-2	22 ATPD	0
	23 DCTR	0

- 3) Press the **[TWIN]** button on the remote commander to display color bar on the left and right two screens.
- 4) Measure the waveform, and repeat the SCOL and SHUE adjustments so that VB1 = VB4, and VB2 = VB3.

Adjustment positions

	Category	tem
Left screen	2103-1	3 SCOL
		4 SHUE
Right screen	2103-2	3 SCOL
		4 SHUE



- 5) After the adjustment finished, return the data set in 2) to original values, and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

4. Component Input Adjustment

- 1) Enter the Component 480i color bar (100%) signal.
- 2) Set the adjustment conditions in 1. Preparation, and further set the following data.

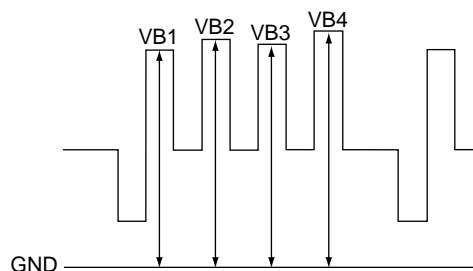
Adjustment conditions

Category	Item	Data
P-BOOST1	0 BSET	0
2103-1	22 ATPD	0
	23 DCTR	0

- 3) Measure the waveform, and repeat the SCOL and SHUE adjustments so that VB1 = VB4, and VB2 = VB3.

Adjustment position

Category	Item
MCP ADJ2	0 SCOL
	1 SHUE



- 4) After the adjustment finished, return the data set in 2) to original values, and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.
- 5) Enter the Component 1080i color bar (100%) signal.
- 6) Set the adjustment conditions in 1. Preparation, and perform adjustment in step 3).
- 7) After the adjustment finished, return the data set in 6) to original values, and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.
- 8) Enter the Component 480p signal. Set same values as those adjusted in 6) and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.
- 9) Enter the Component 720p signal. Set same values as those adjusted in 6) and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

3-2-3. Hi-Level/Cut-Off Adjustment

- 1) Enter the Video window signal, and set the PICTURE MODE to "Vivid".
- 2) Connect an oscilloscope to the CN702 on the BB board.

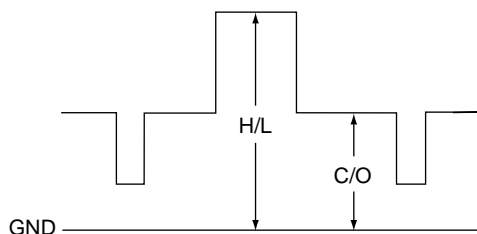
Measurement positions

R	pin ⑤ (TP742)
G	pin ③ (TP743)
B	pin ① (TP744)

- 3) For each output waveform of R, G, and B, repeat respective adjustment items so as to attain $H/L = 3.74 \text{ V} \pm 1 \text{ STEP}$ and $C/O = 2.24 \text{ V} \pm 1 \text{ STEP}$.

Adjustment position

Category	Item
MCP ADJ1	0 RDRV
	1 RCUT
	2 GDRV
	3 GCUT
	4 BDRV
	5 BCUT



- 4) After the adjustment finished, write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.
- 5) Change over the PICTURE MODE to "Mild", and perform the steps 3) and 4).
- 6) Enter the Component 480i window signal, and change over the PICTURE MODE to "Vivid".
- 7) Perform the steps 3) to 5).
- 8) Enter the Component 1080i window signal, and change over the PICTURE MODE to "Vivid".
- 9) Perform the steps 3) and 4).
- 10) Enter the Component 480p signal. Set same values as those adjusted in 9) and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.
- 11) Enter the Component 720p signal. Set same values as those adjusted in 9) and write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

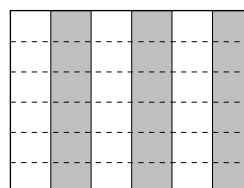
3-3. VERTICAL STRIPE ADJUSTMENT

1. Set the following adjustment conditions, and display the test pattern.

Adjustment conditions

Category	Item	Data
D-GM TEST	2 G-LUT SW	0
D-GM TPN	0 T-PATN SW	1
	1 T-SIG SEL	0
	2 PATN DIR	1
	3 SIG LV DIR	0
	5 B-LV	15
	6 G-LV	15
	7 R-LV	15

2. Set the test pattern to red color, and adjust the EVEN VR so as to minimize vertical stripes (difference in brightness of vertical lines every two dots).



- **Screen Magnify**
Should be minimize bright difference every two dots.

Category	Item	Data
D-GM TPN	8 T-PATN RGB	1 (R)
LCD-DR	2 R ODD VR	ADJ*
LCD-DR	3 R EVEN VR	ADJ

*: Fundamentally, this item is adjusted with the EVEN VR only, but if the adjustment range is not enough, the ODD VR may also be adjusted.

Test pattern color combination

DATA=	1	2	3	4	5	6	7
R	○	—	○	—	○	—	○
G	—	○	○	—	—	○	○
B	—	—	—	○	○	○	○

3. Adjust the green in the same manner.

Category	Item	Data
D-GM TPN	8 T-PATN RGB	2 (G)
LCD-DR	7 G ODD VR	ADJ*
LCD-DR	8 G EVEN VR	ADJ

*: Fundamentally, this item is adjusted with the EVEN VR only, but if the adjustment range is not enough, the ODD VR may also be adjusted.

- Adjust the blue in the same manner.

Category	Item	Data
D-GM TPN	8 T-PATN RGB	4 (B)
LCD-DR	12 B ODD VR	ADJ*
LCD-DR	13 B EVEN VR	ADJ

*: Fundamentally, this item is adjusted with the EVEN VR only, but if the adjustment range is not enough, the ODD VR may also be adjusted.

- Write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

3-4. SUB BRIGHT ADJUSTMENT

- Enter the monoscope signal to the VIDEO 5 input, and set the PICTURE MODE to “Vivid” and the WIDE MODE to “Full”.
- Adjust the SUB BRT so that the borderline of 0IRE and 10IRE becomes distinctive.

Adjustment positions

Category	Item	Standard value
D-GM IM	2 SUB CON	25*
D-GM IM	3 SUB BRT	20

*: If the adjustment is imperfect though the SUB BRT value is 0, lower the SUB CON value and make further adjustment.

Note: If the SUB BRT value exceeds 32, make sure that there is no noisy black of 0IRE.

Though the SUB CON value is generally lowered only, if it is to be raised, take care not to cause the white blurring.

- If the SUB CON value was changed, check the white balance and repeat adjustment to attain best sub brightness, sub contrast, and white balance.
- After the adjustment finished, write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

3-5. SCREEN CENTER ADJUSTMENT

- Enter the RF monoscope signal.
- Adjust so that the picture is displayed in the center of the screen.

Adjustment position

Category	Item
HV POS AD	0 H POS ADJ
	1 V POS ADJ

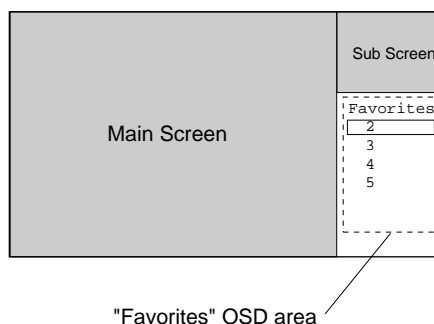
- Make sure that a difference in horizontal graduations is below 0.1 frame, and a difference in vertical graduations is below 0.1 frame, and then write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

3-6. FAVORITES ADJUSTMENT

- Enter the RF signal, and press the **[FAVORITES]** button on the remote commander.
- Adjust so that the “Favorites” displayed on the right side of the screen comes to the center of the display area.

Adjustment position

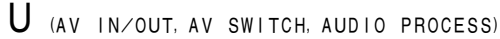
Category	Item
OSD	1 HPOF



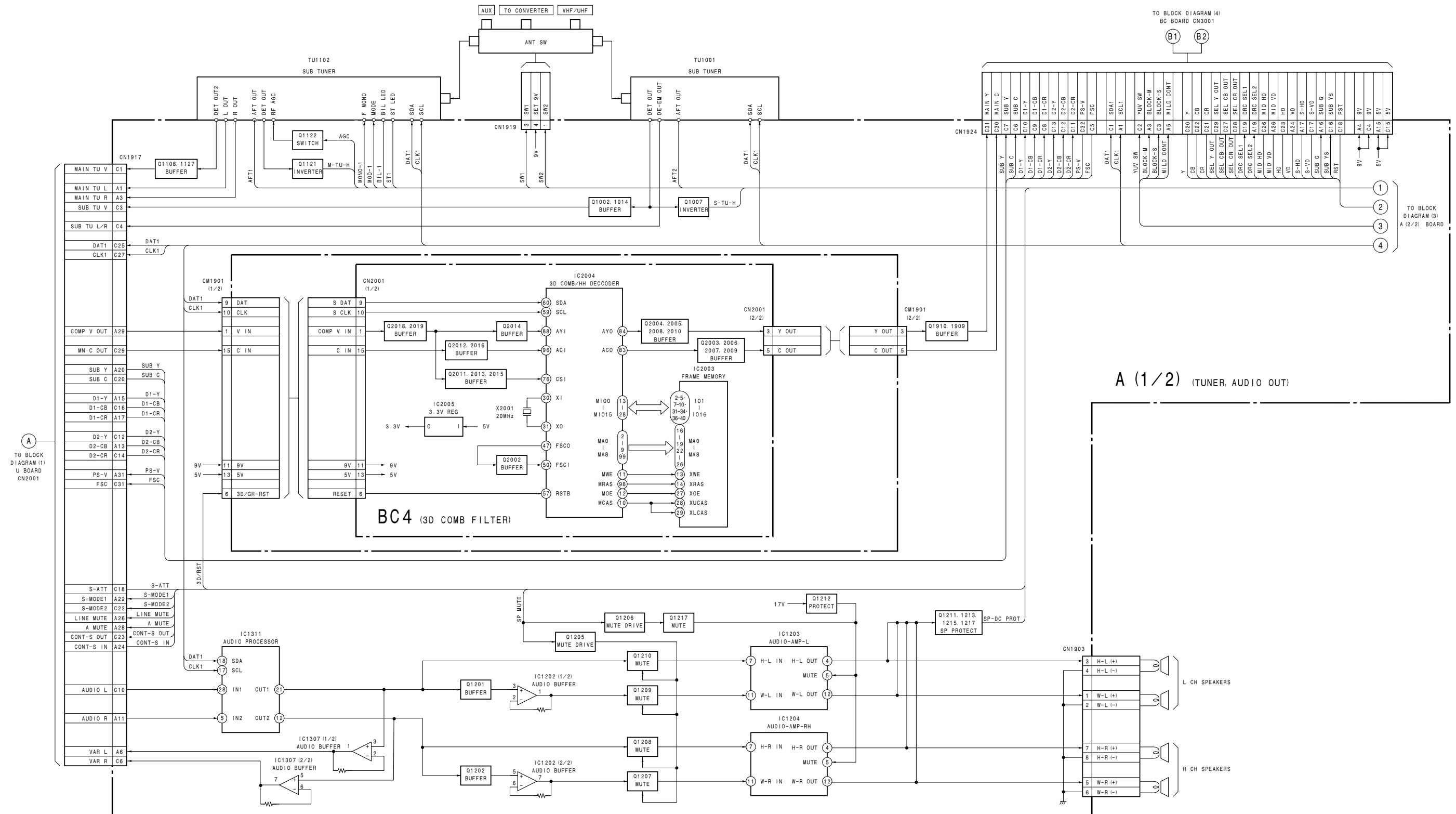
- After the adjustment finished, write the data by pressing the **[MUTE]** + **[ENTER]** buttons on the remote commander.

DIAGRAMS

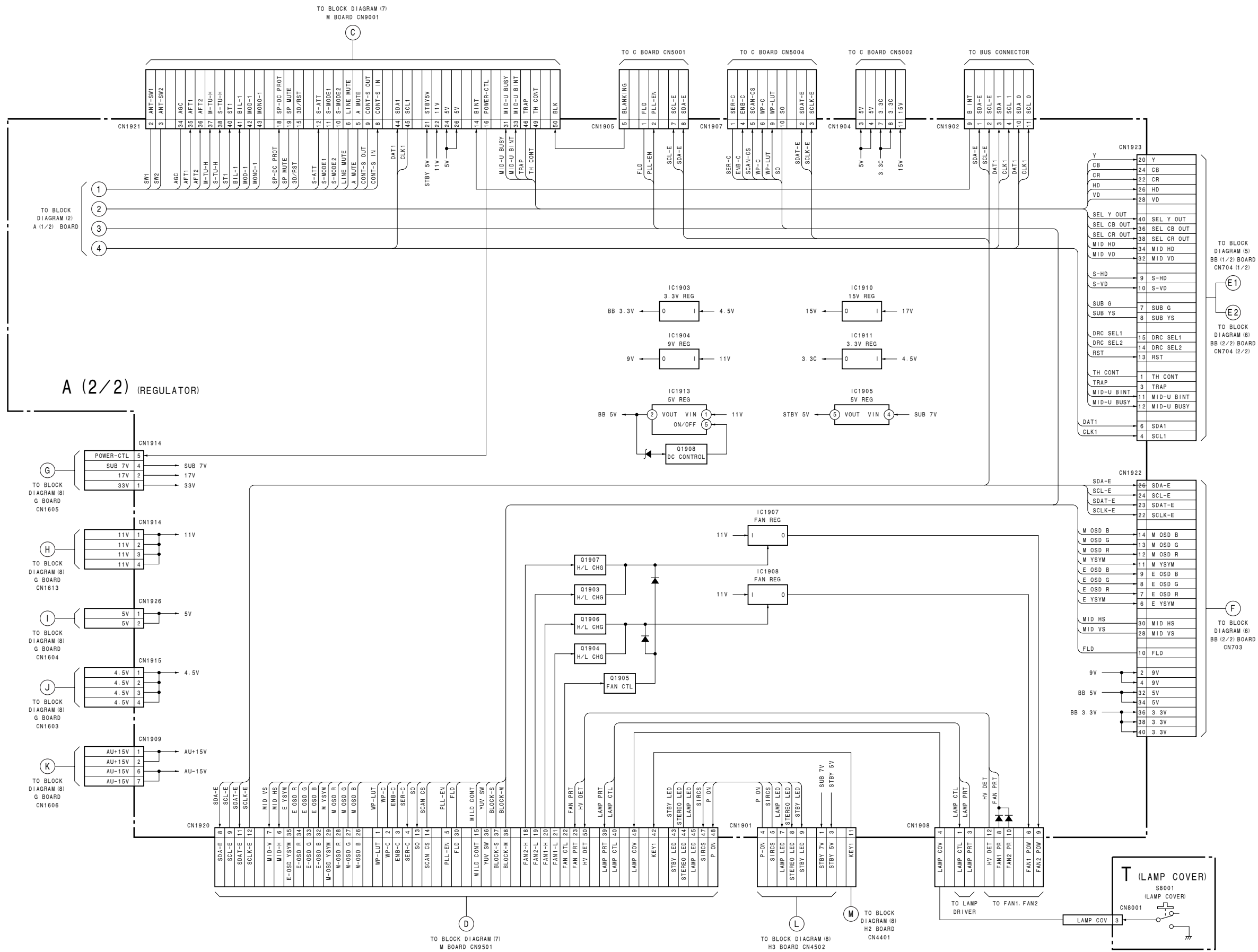
4-1. BLOCK DIAGRAM (1)



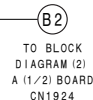
BLOCK DIAGRAM (2)



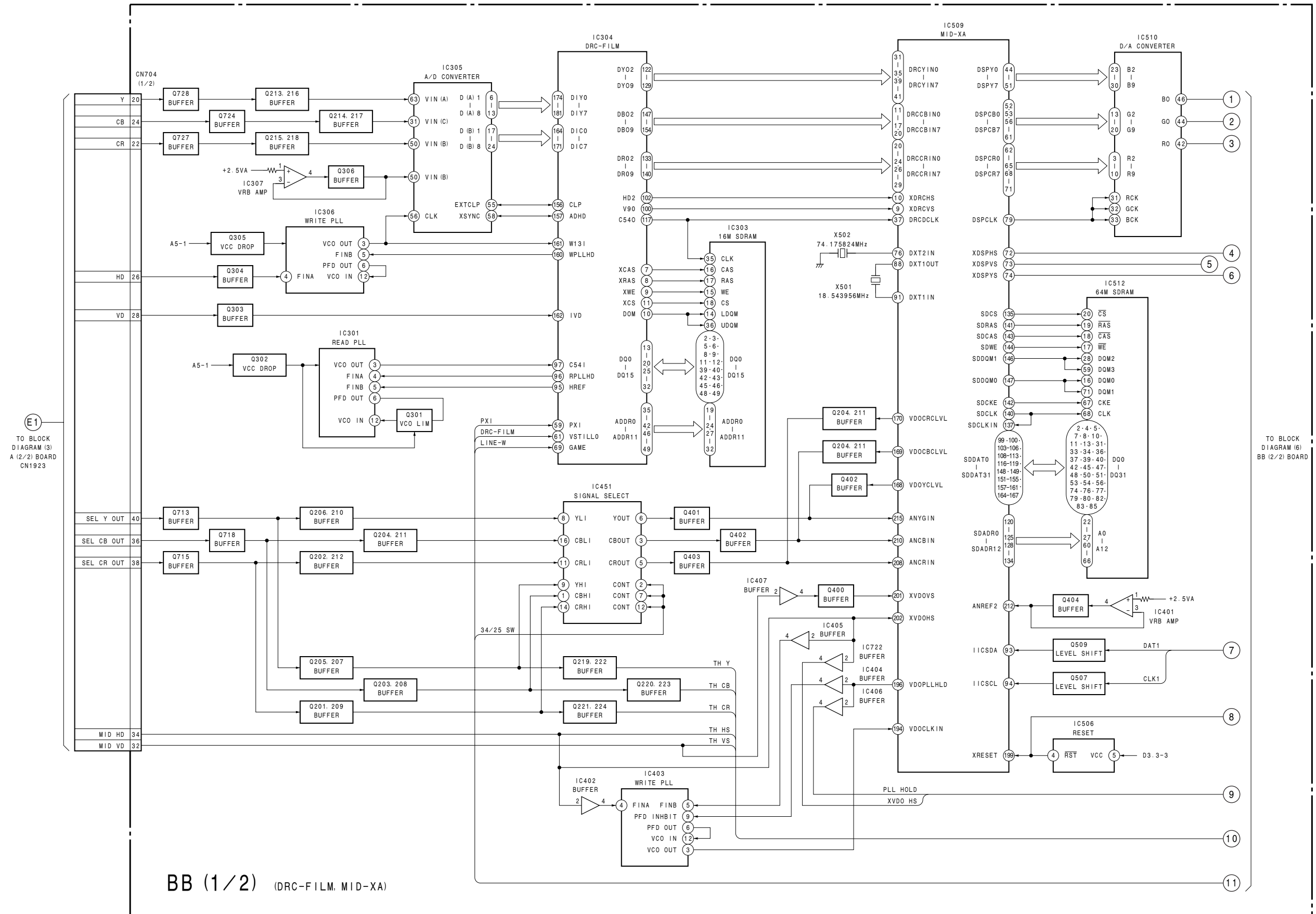
BLOCK DIAGRAM (3)



BLOCK DIAGRAM (4)



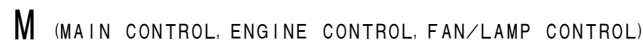
BLOCK DIAGRAM (5)



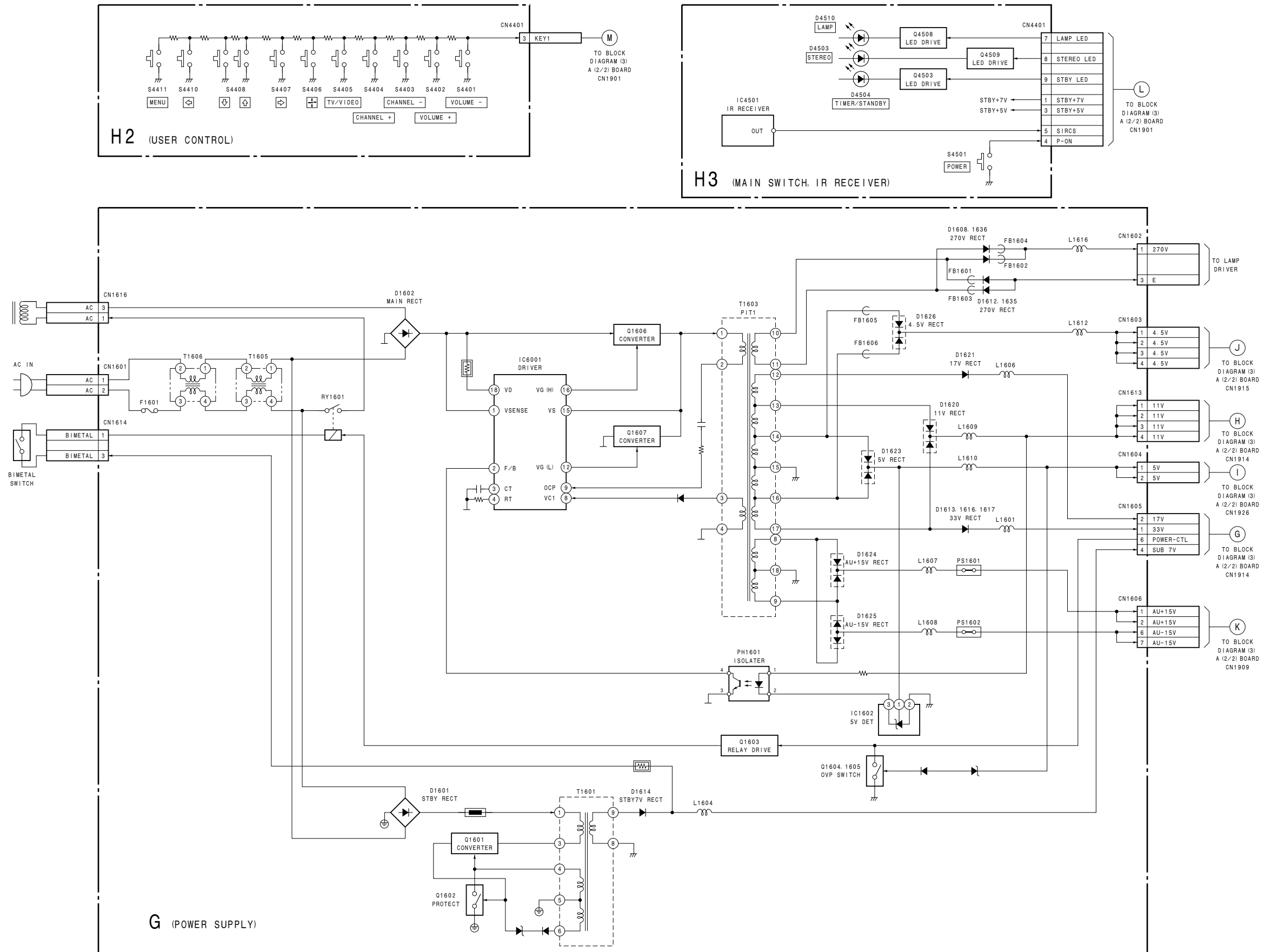
BLOCK DIAGRAM (6)



BLOCK DIAGRAM (7)

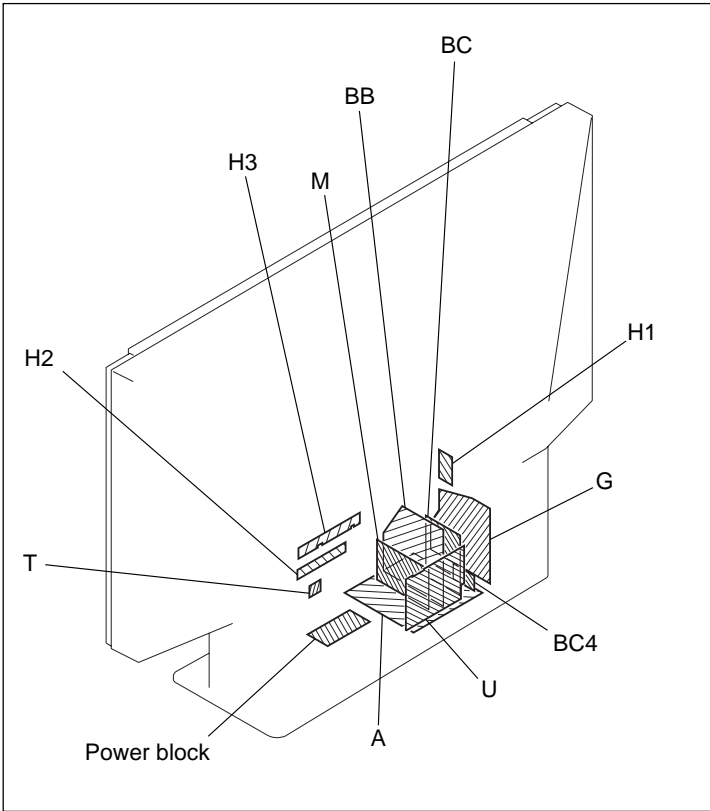


BLOCK DIAGRAM (8)





4-3. CIRCUIT BOARDS LOCATION



4-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

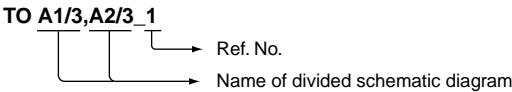
Note:

- The parts marked “#” on schematic diagrams are not mounted.
- All capacitors are in μF unless otherwise noted. (pF: $\mu\mu\text{F}$) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.
- : Signal path.

- Divided schematic diagram
Schematic diagrams of A, BB, BC, M and U boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each line.
For example, [TO A1/3,A2/3_1] means the line is connected to Ref. No. 1 of A (1/3) and A (2/3) schematic diagrams.



Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
COIL	: RB	NONFLAMMABLE CEMENT
	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

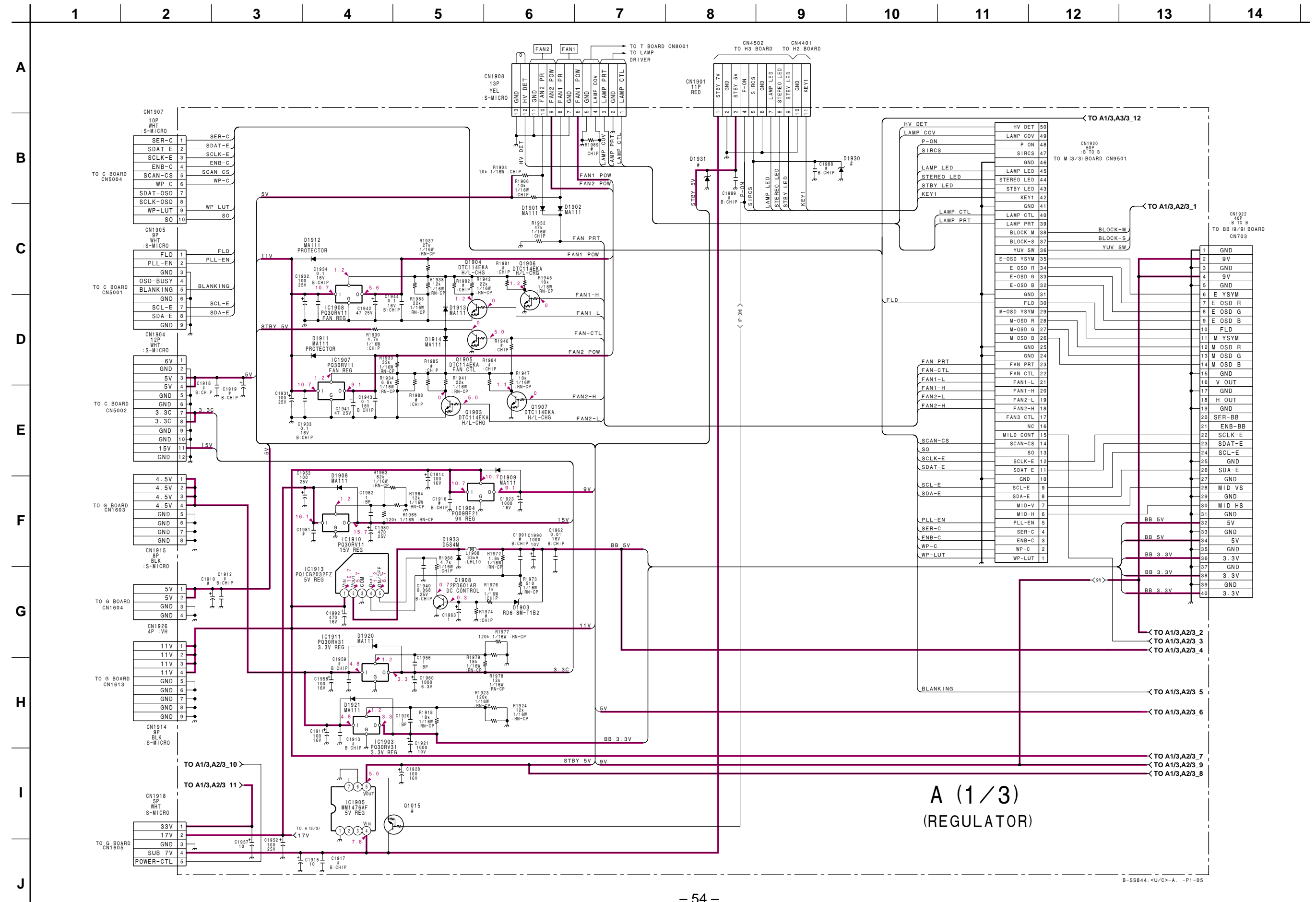
Terminal name of semiconductors in silk screen printed circuit (※)

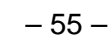
	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Anode Cathode Anode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C2 B1 E1 E2 B2 C1	
⑱	Transistor		C1 B2 E2 E1 B1 C2	
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 C1 C2	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
—	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

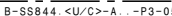
Ver.1.5

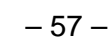
(1) Schematic Diagram of A (1/3) Board



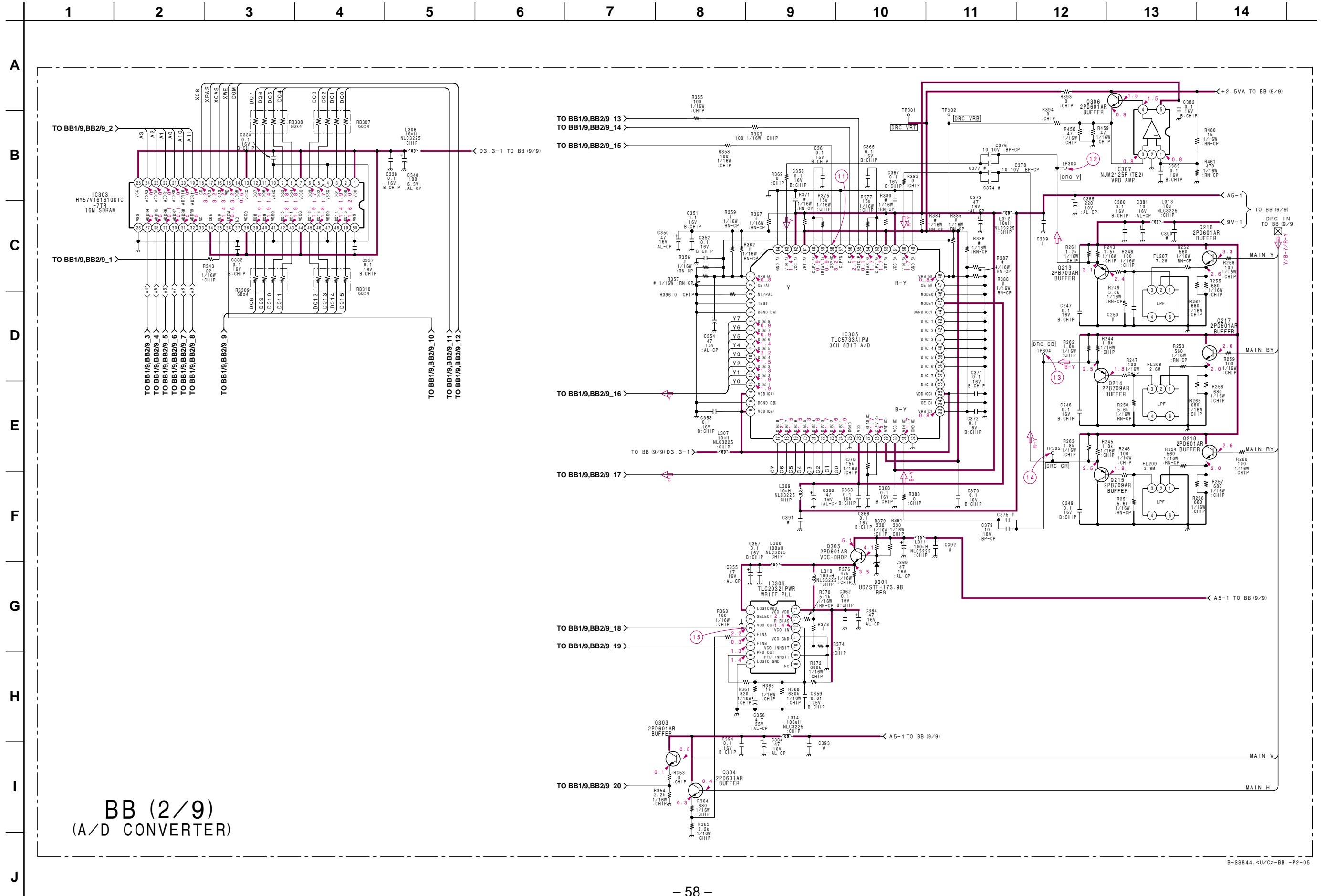


(3) Schematic Diagram of A (3/3) Board

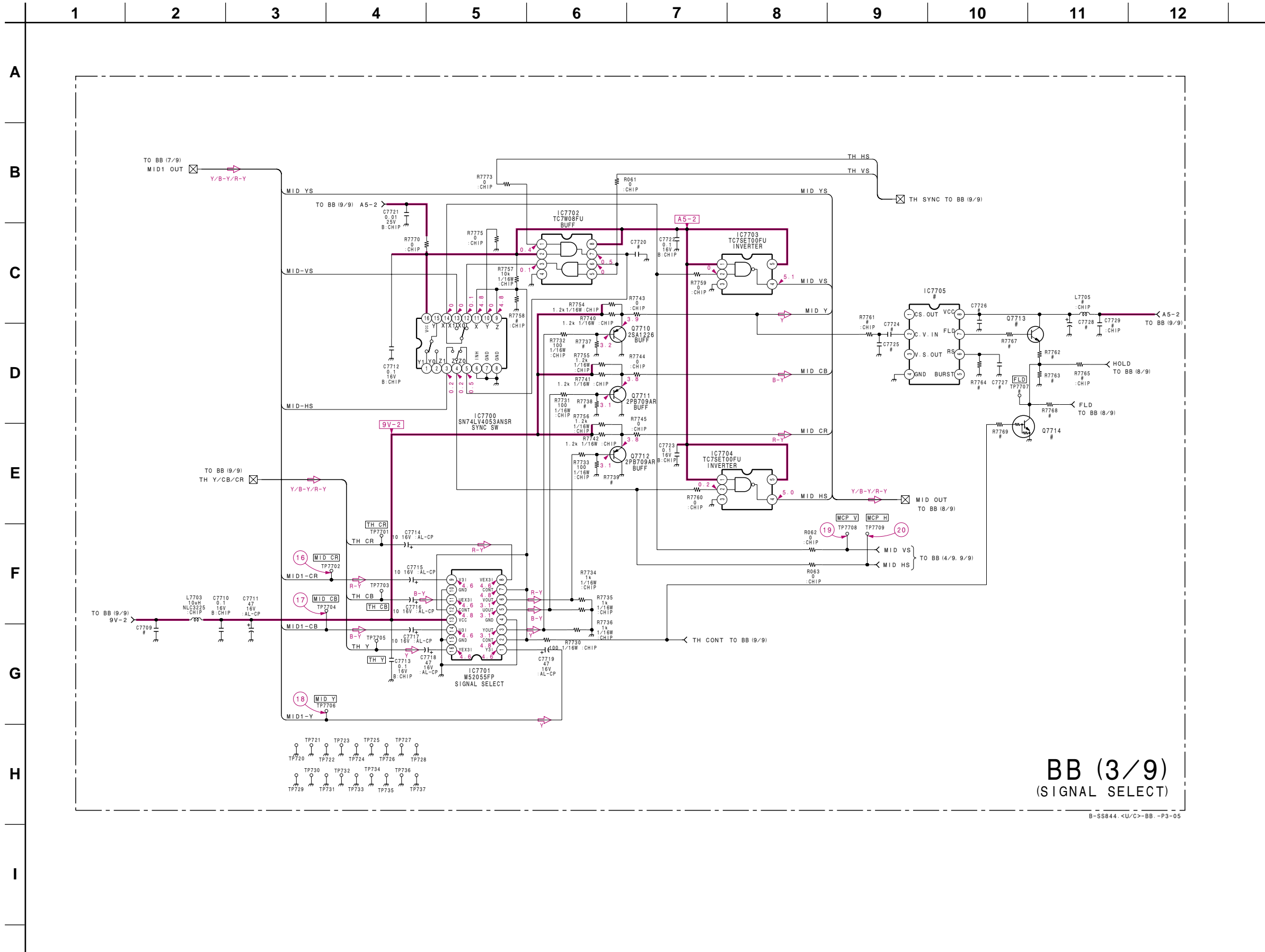




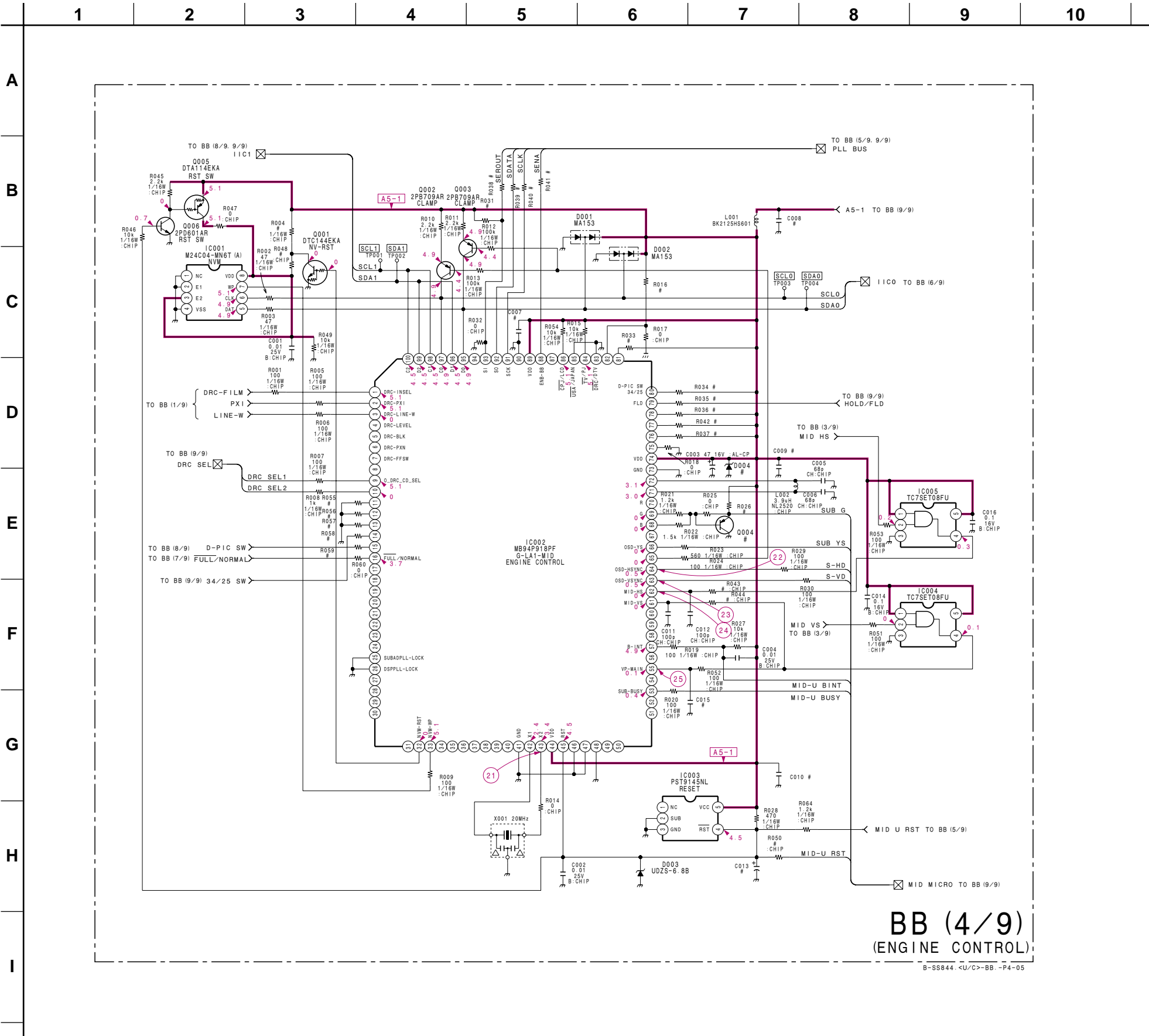
(5) Schematic Diagram of BB (2/9) Board

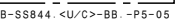


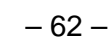
(6) Schematic Diagram of BB (3/9) Board



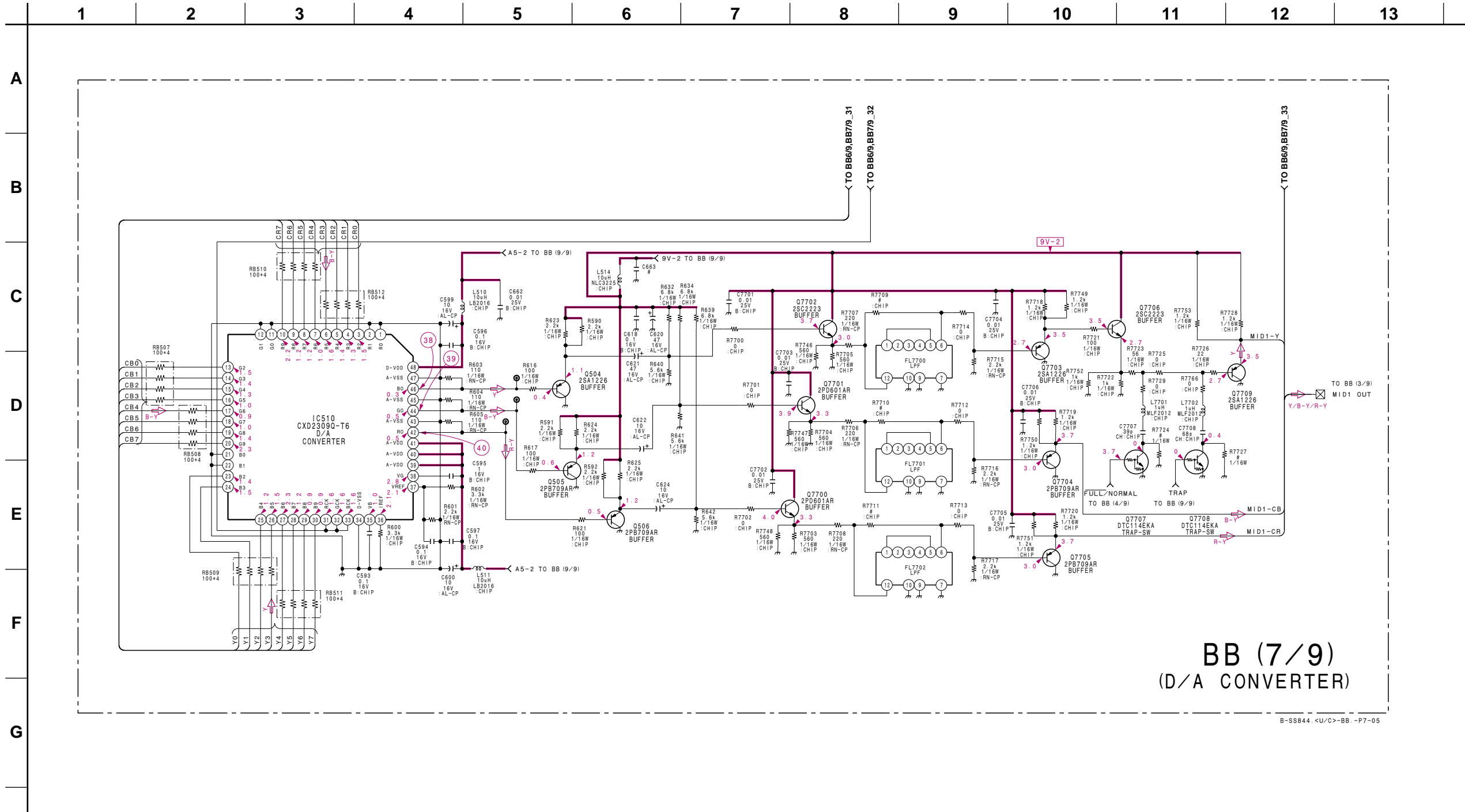
(7) Schematic Diagram of BB (4/9) Board



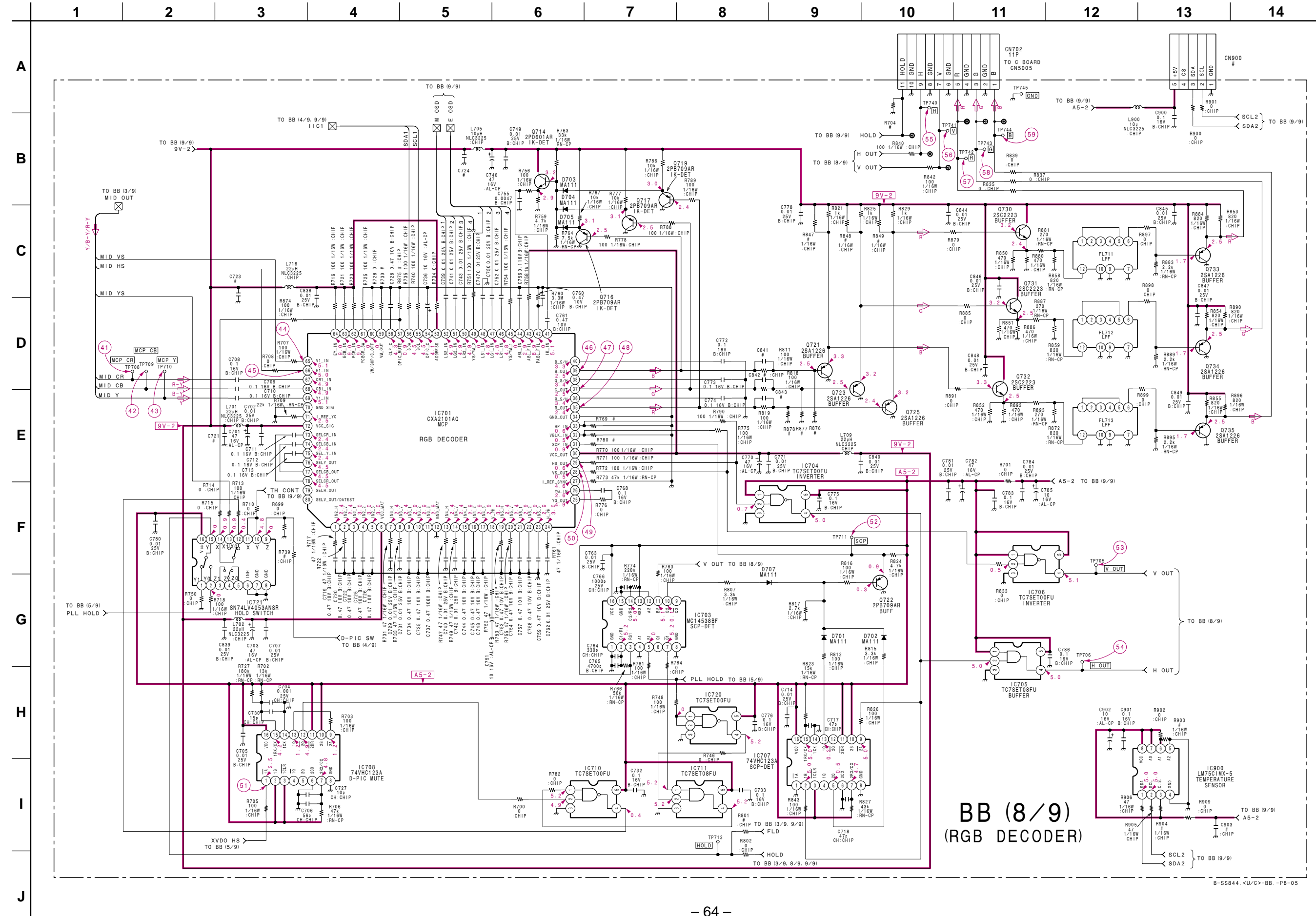




(10) Schematic Diagram of BB (7/9) Board



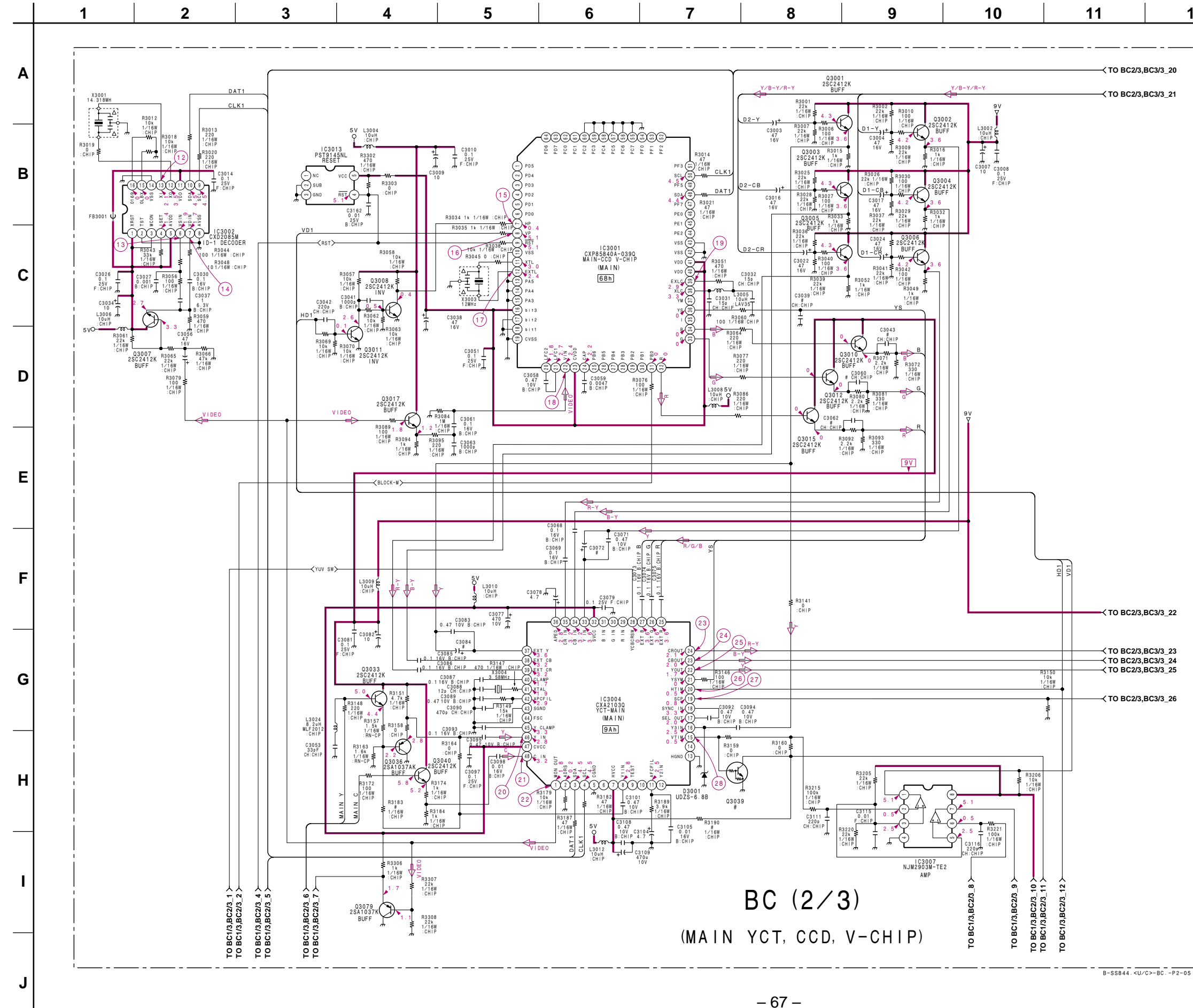
(11) Schematic Diagram of BB (8/9) Board



(12) Schematic Diagram of BB (9/9) Board

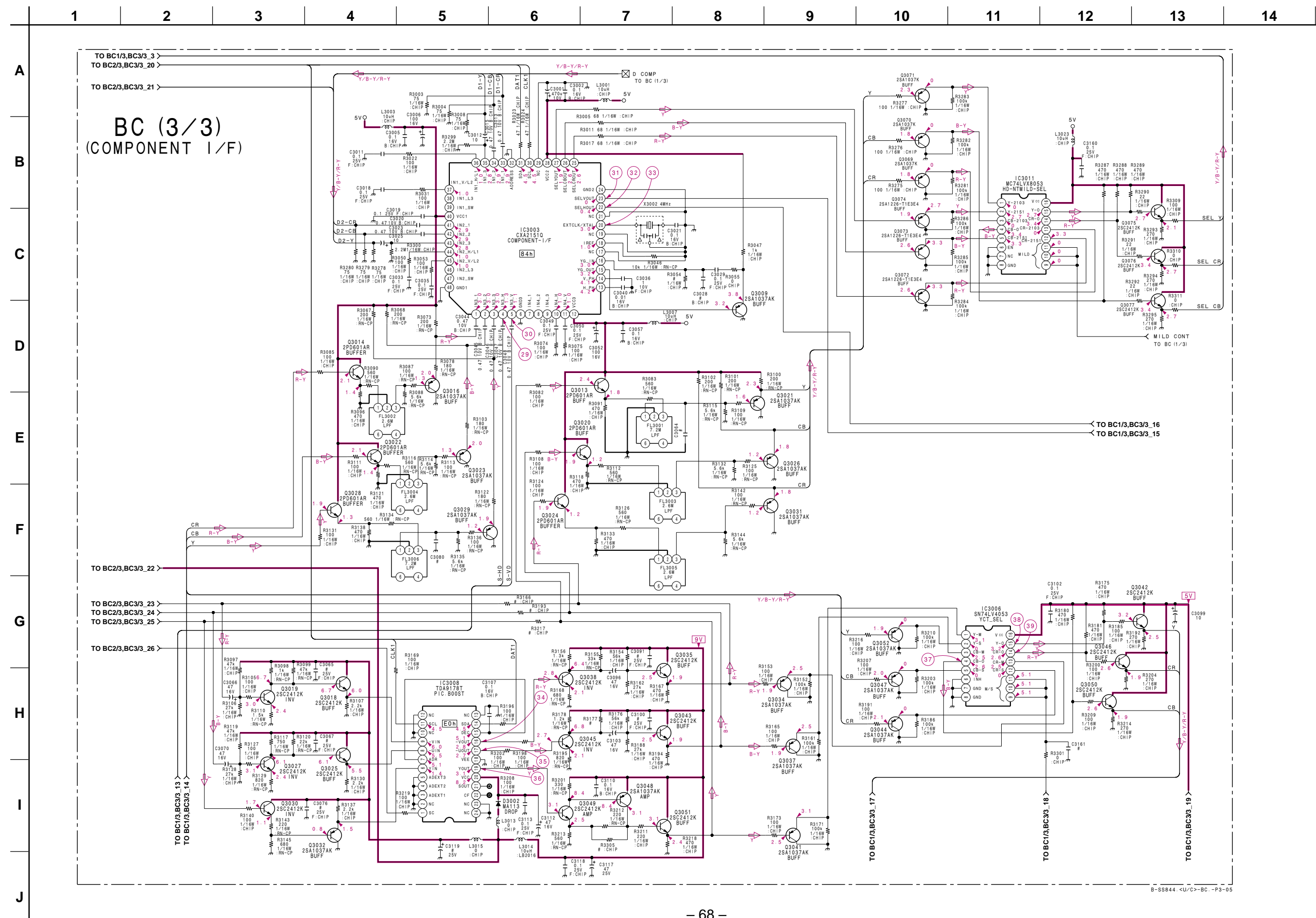


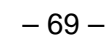
(14) Schematic Diagram of BC (2/3) Board



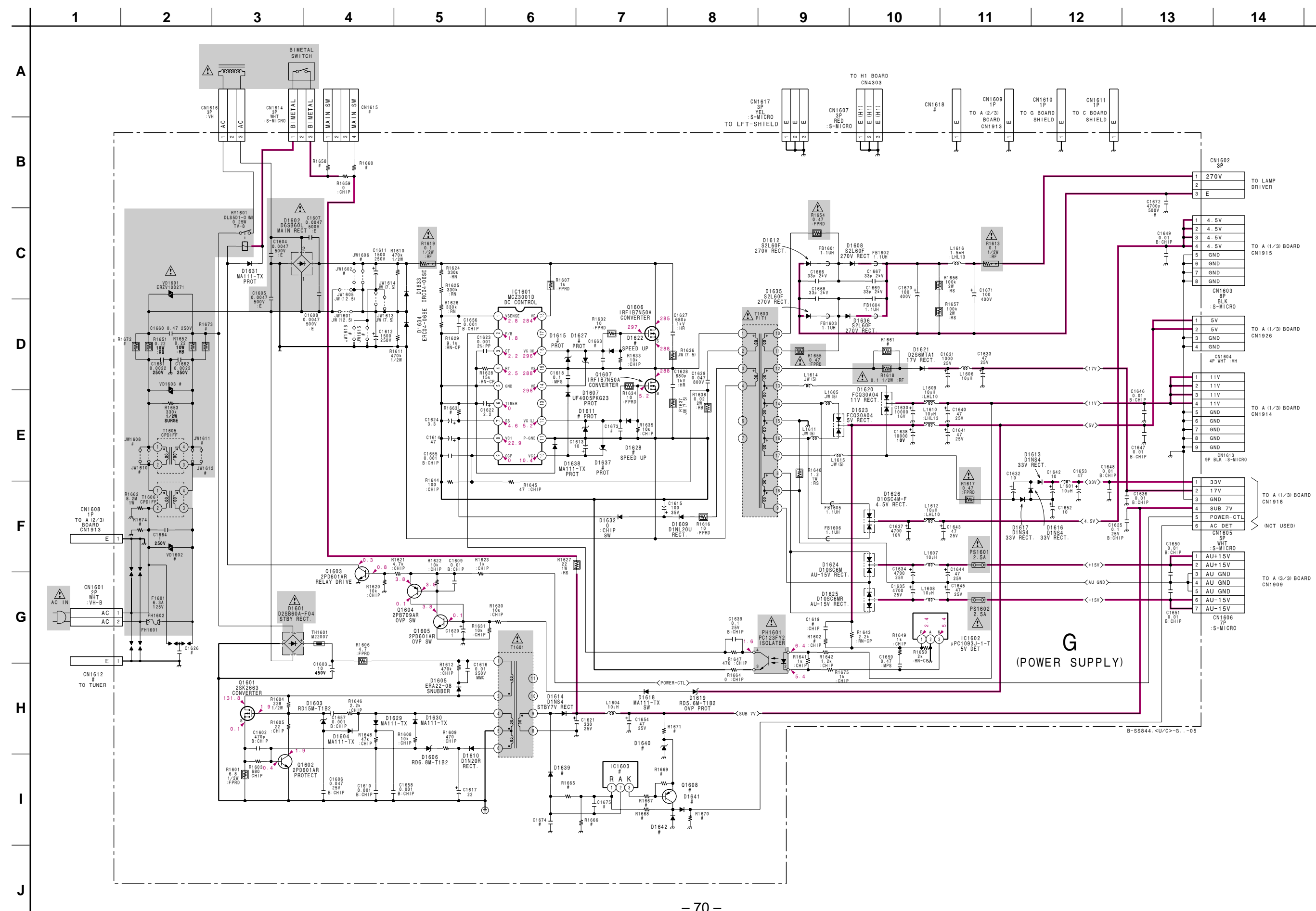
B-SS844. <U/C>-BC. -P2-05

(15) Schematic Diagram of BC (3/3) Board

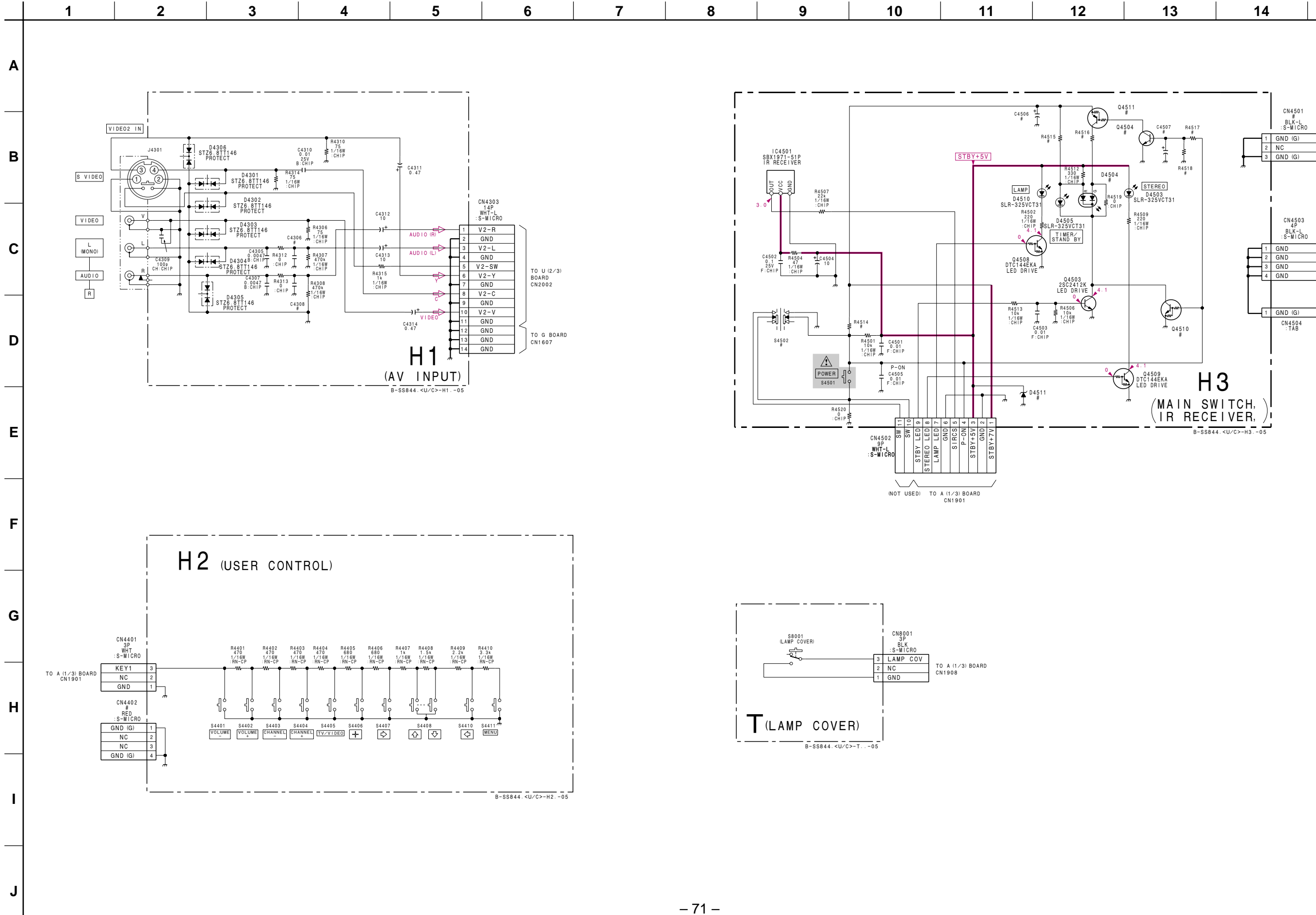




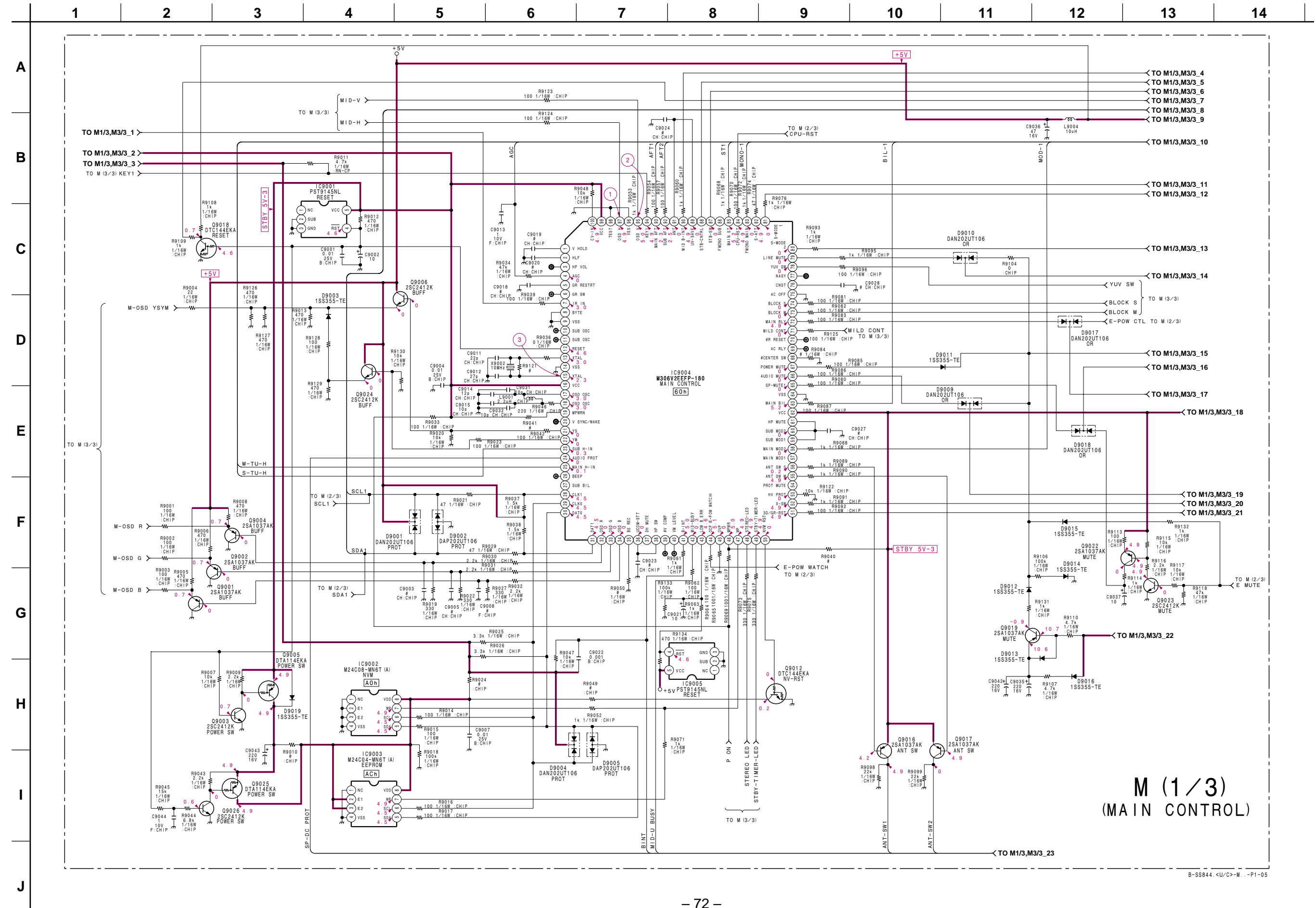
(17) Schematic Diagram of G Board

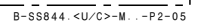


(18) Schematic Diagrams of H1, H2, H3 and T Boards

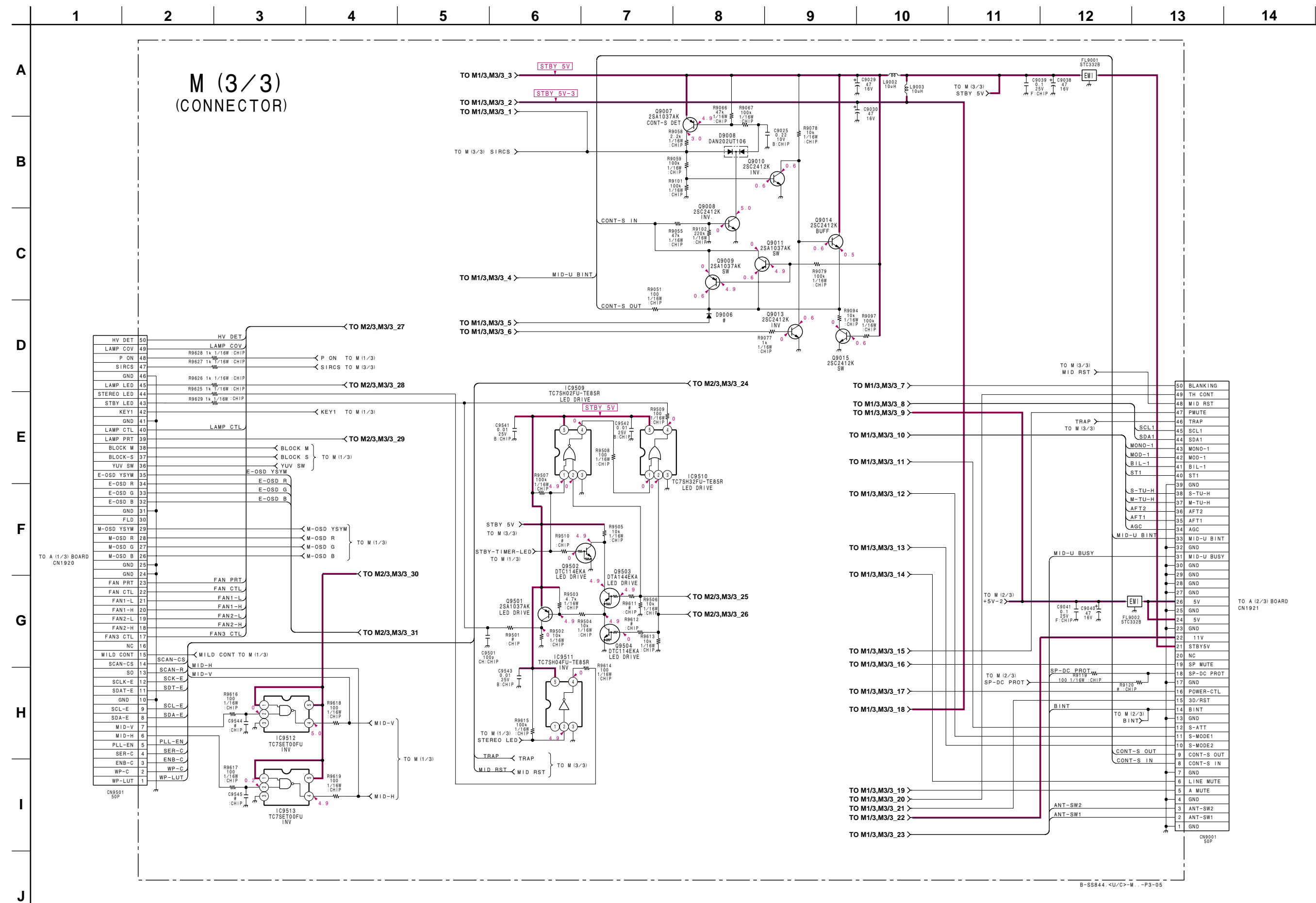


(19) Schematic Diagram of M (1/3) Board

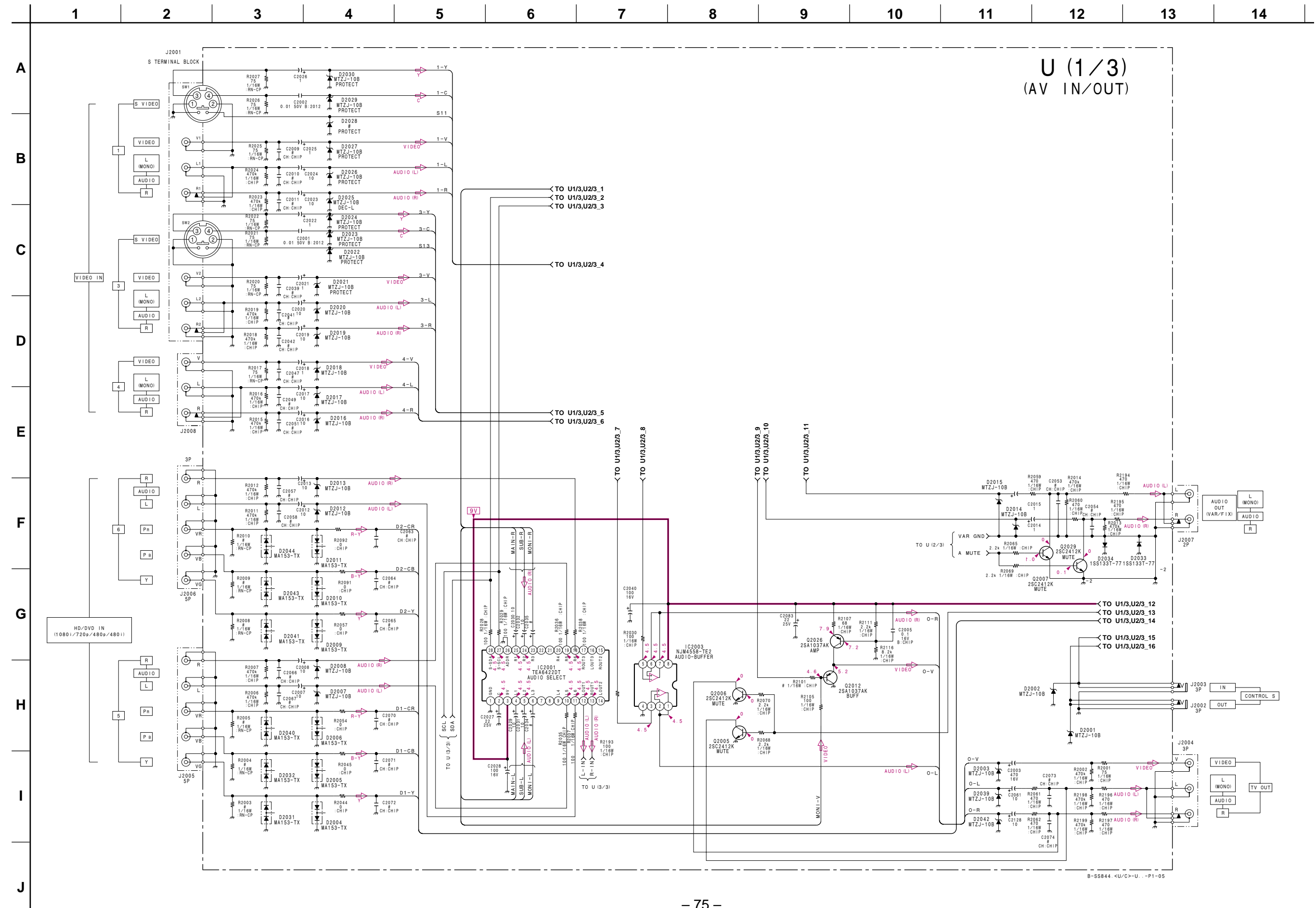




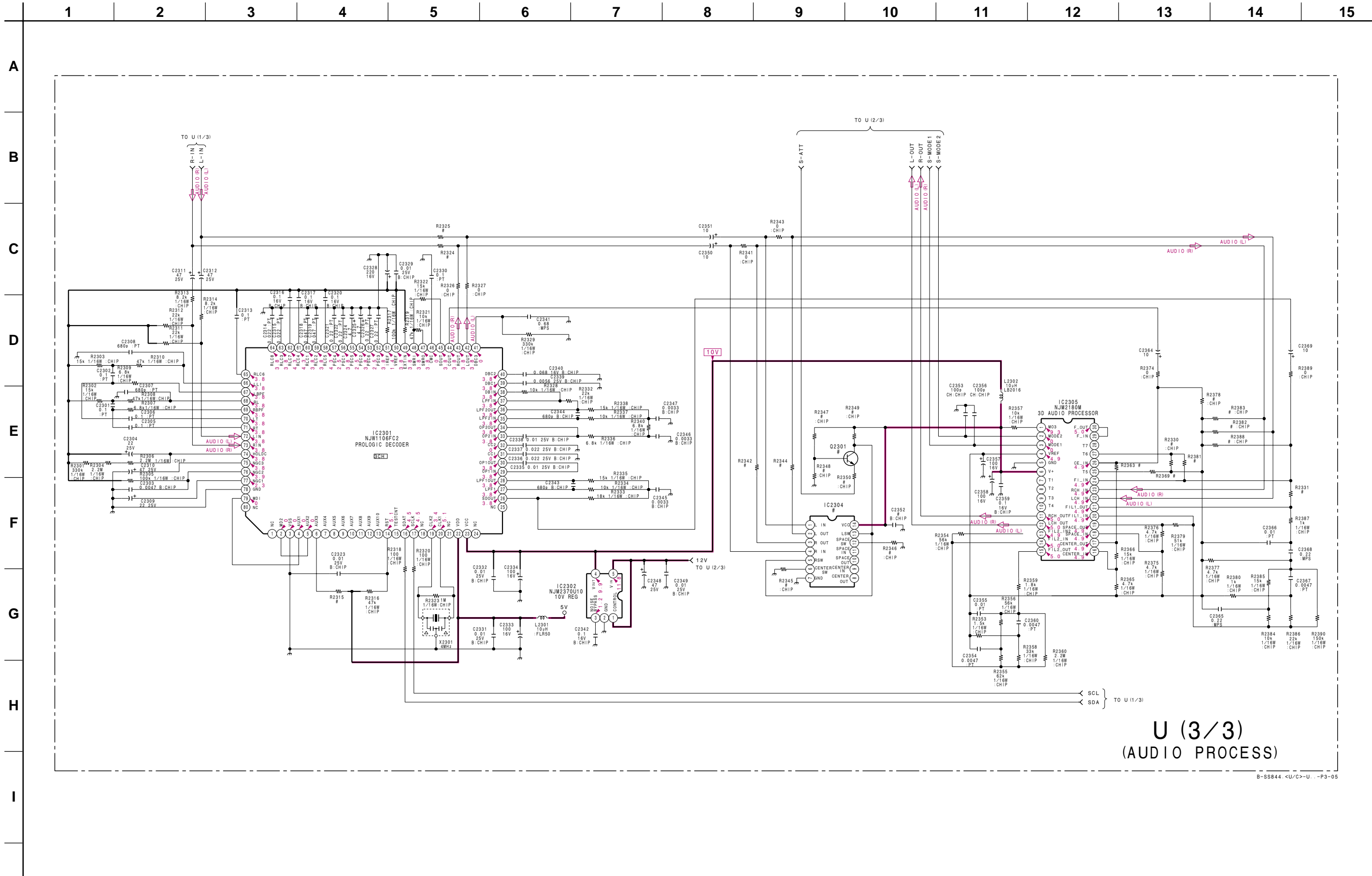
(21) Schematic Diagram of M (3/3) Board



(22) Schematic Diagram of U (1/3) Board



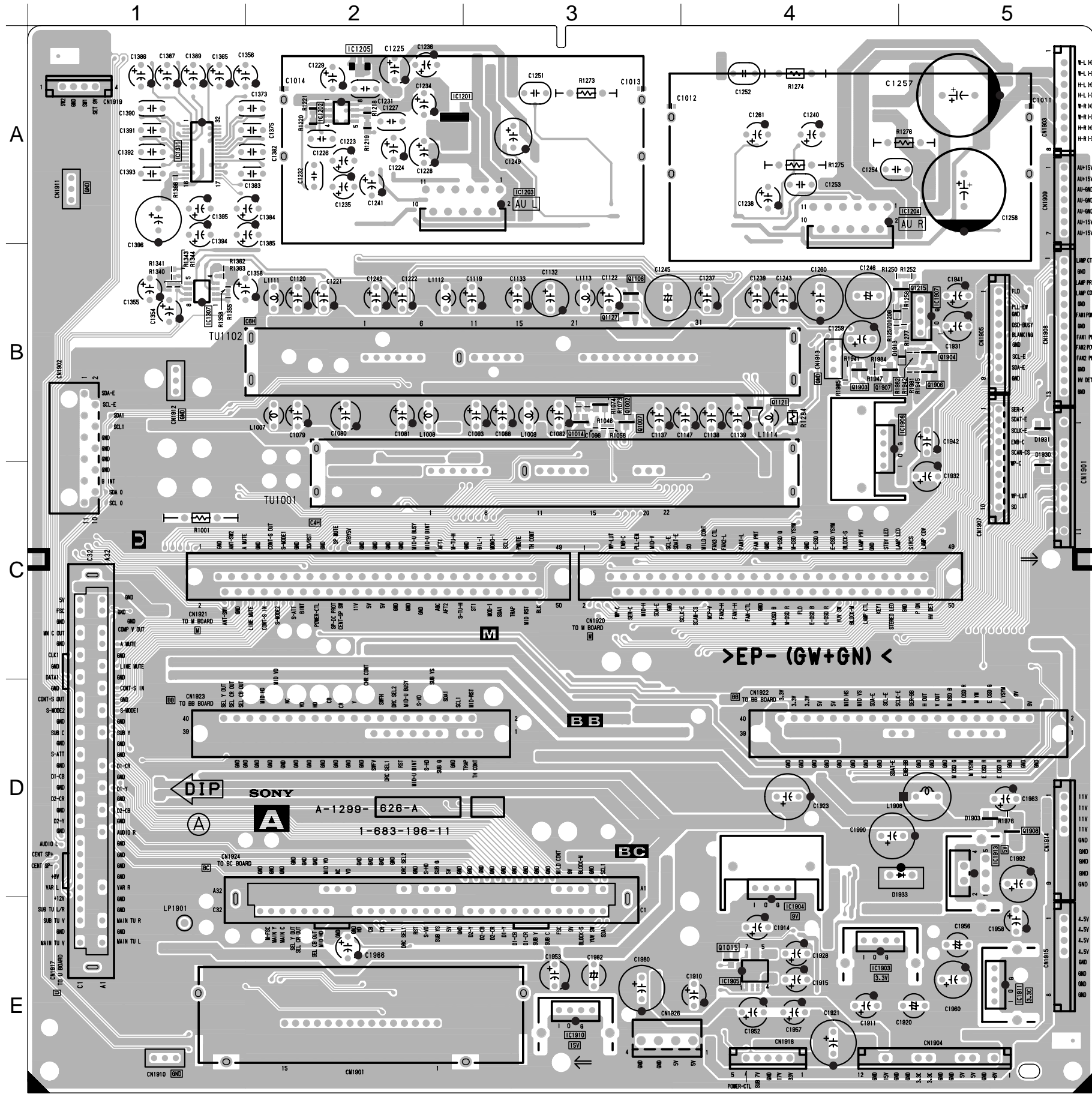
(24) Schematic Diagram of U (3/3) Board



U (3/3)
(AUDIO PROCESS)

B-S5844 <U/C>-U...-P3-05

— A BOARD (Component Side) —



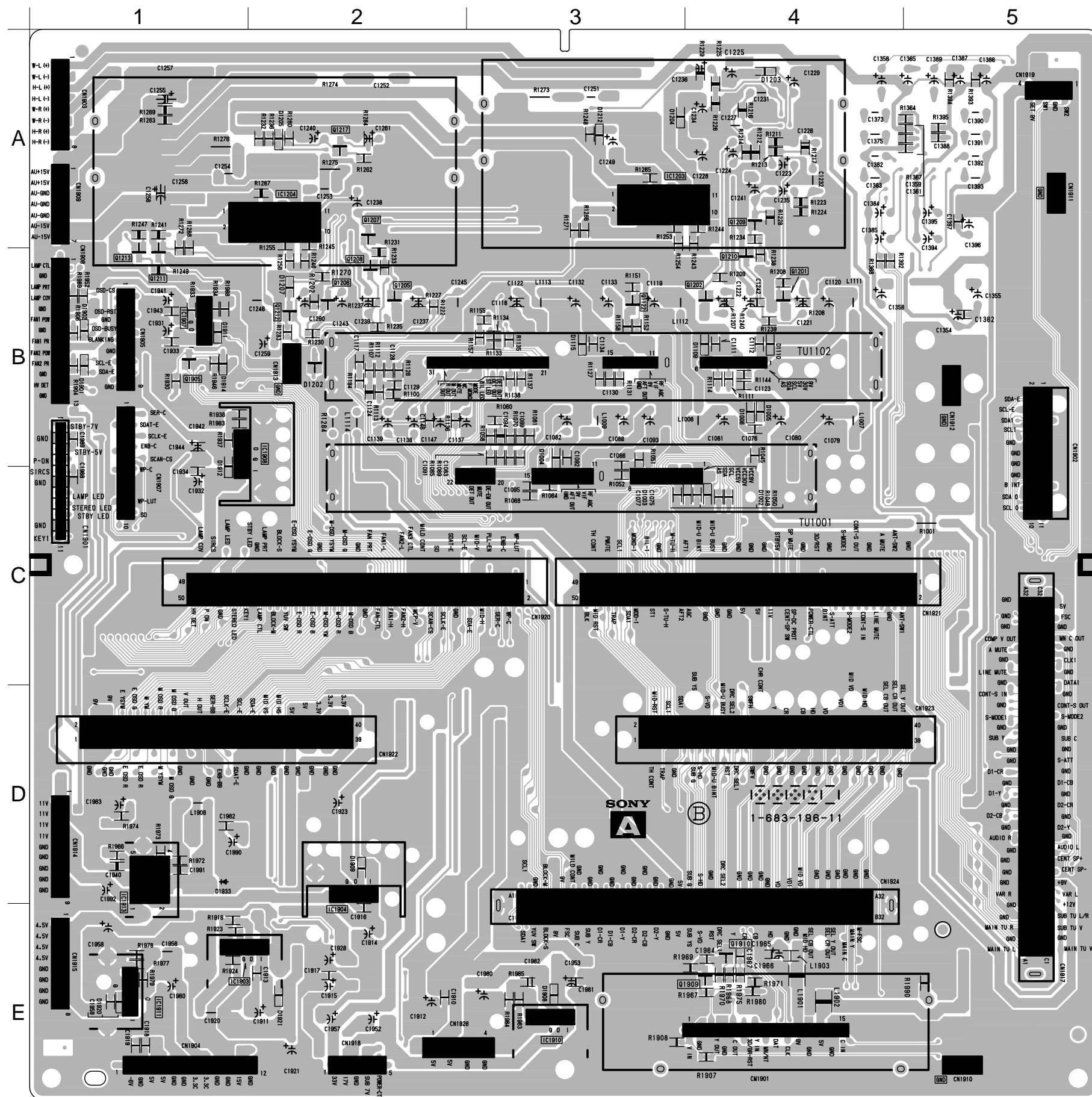
A [TUNER, AUDIO OUT,
REGULATOR]

• A BOARD SEMICONDUCTOR LOCATION
(Component Side)

IC		
IC1201	A-2	
IC1202	A-2	
IC1203	A-3	
IC1204	A-4	
IC1205	A-2	
IC1307	B-1	
IC1311	A-1	
IC1903	E-4	
IC1904	D-4	
IC1905	E-4	
IC1907	B-5	
IC1908	B-4	
IC1910	E-3	
IC1911	E-5	
IC1913	D-5	
TRANSISTOR		
Q1002	B-3	②
Q1007	B-3	②
Q1014	B-3	②
Q1108	B-3	②
Q1121	B-4	②
Q1127	B-3	②
Q1215	B-5	②
Q1903	B-4	②
Q1904	B-5	②
Q1906	B-5	②
Q1907	B-4	②
Q1908	D-5	②
DIODE		
D1206	B-4	③
D1903	D-5	③
D1913	B-5	③
D1933	D-5	—

※: Refer to Terminal name of semiconductors in silk
screen printed circuit (see page 53)

— A BOARD (Conductor Side) —

TUNER, AUDIO OUT,
REGULATOR

- **A BOARD SEMICONDUCTOR LOCATION (Conductor Side)**

IC		
IC1203	A-3	
IC1204	A-2	
IC1903	E-1	
IC1904	D-2	
IC1907	B-1	
IC1908	B-1	
IC1910	E-3	
IC1911	E-1	
IC1913	D-1	

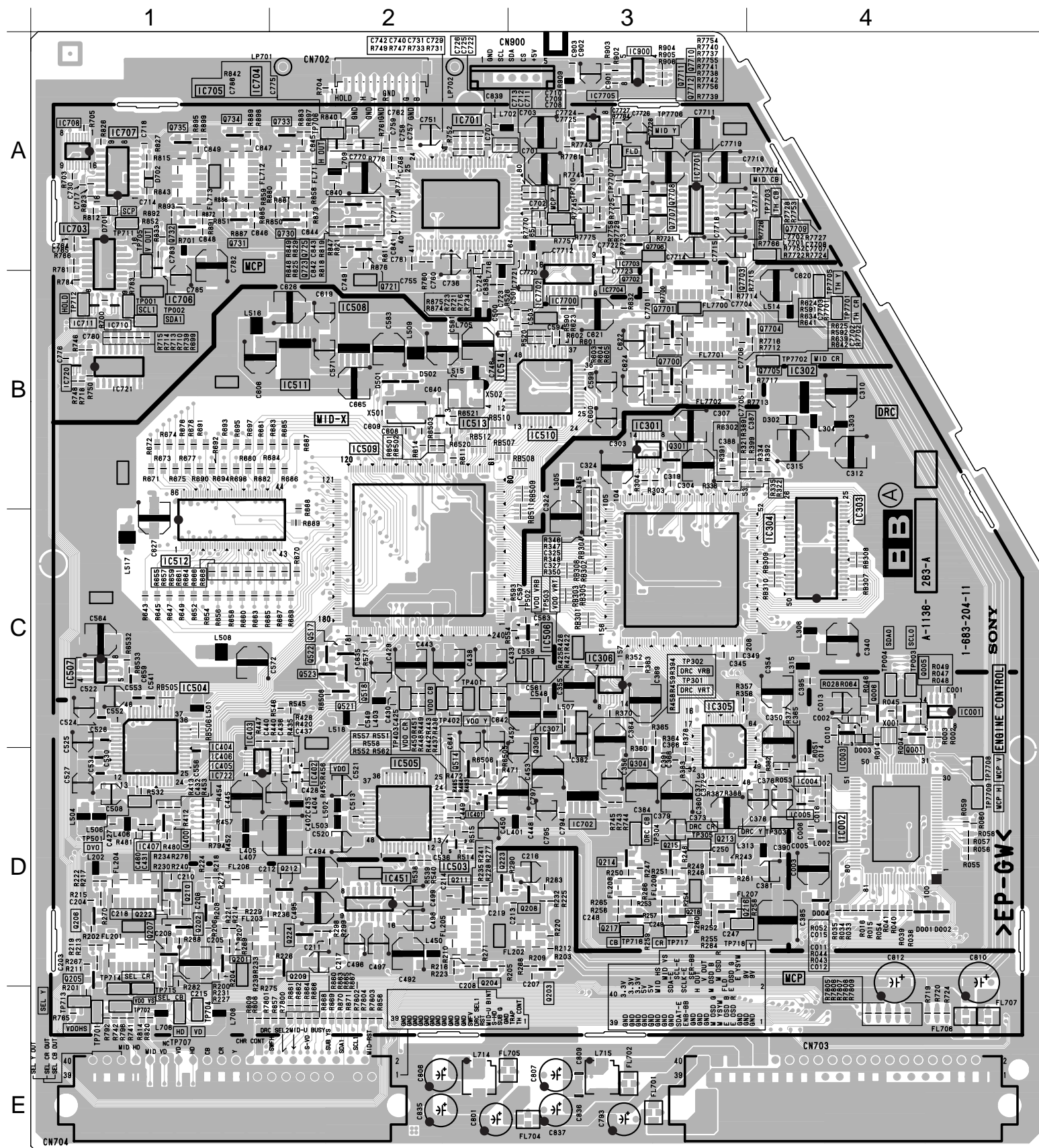
TRANSISTOR		
Q1122	B-3	① *
Q1201	B-4	①
Q1202	B-4	①
Q1205	B-2	①
Q1206	B-2	①
Q1207	A-2	①
Q1208	B-2	①
Q1209	A-4	①
Q1210	B-4	①
Q1211	B-1	①
Q1212	B-2	①
Q1213	B-1	①
Q1217	A-2	①
Q1905	B-1	①
Q1909	E-4	①
Q1910	E-4	①

DIODE		
D1005	B-4	③ *
D1006	B-4	③
D1202	B-2	③
D1203	A-4	③
D1204	A-3	③
D1207	B-2	③
D1901	B-1	③
D1902	B-1	③
D1908	E-3	③
D1909	D-2	③
D1911	B-1	③
D1912	C-1	③
D1914	B-1	③
D1920	E-1	③
D1921	E-2	③
D1933	D-1	—

***: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 53)**

DRC-FILM, MID-XA, RGB DECODER,
ENGINE CONTROL

— BB BOARD (Component Side) —



- **BB BOARD SEMICONDUCTOR LOCATION**
(Component Side)

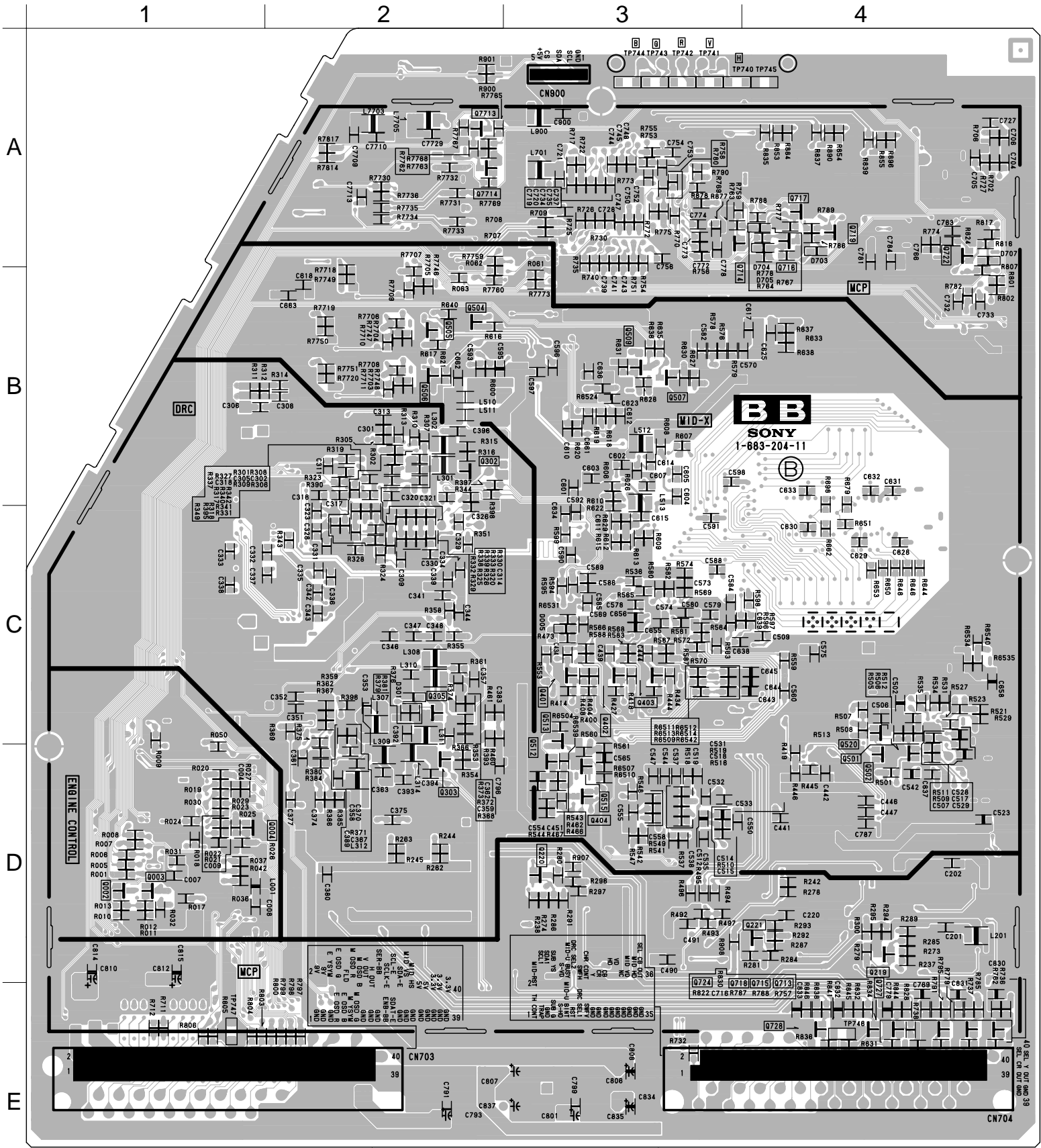
IC		Q209	D-2	②
IC001	C-4	Q210	D-1	②
IC002	D-4	Q211	D-2	②
IC003	C-4	Q212	D-2	②
IC004	D-4	Q213	D-3	②
IC005	D-4	Q214	D-3	②
IC301	B-3	Q215	D-3	②
IC302	B-4	Q216	D-3	②
IC303	C-4	Q217	D-3	②
IC304	C-3	Q218	D-3	②
IC305	C-3	Q222	D-1	②
IC306	C-3	Q223	D-2	②
IC307	C-3	Q224	D-2	②
IC401	D-2	Q301	B-3	②
IC402	D-2	Q304	D-3	②
IC403	D-1	Q306	C-3	②
IC404	D-1	Q400	D-1	②
IC405	D-1	Q517	C-2	②
IC406	D-1	Q518	C-2	②
IC407	D-1	Q521	C-2	②
IC451	D-2	Q522	C-2	②
IC506	C-3	Q523	C-2	②
IC508	B-2	Q721	A-2	②
IC509	C-2	Q723	A-2	②
IC510	B-3	Q725	A-2	②
IC511	B-2	Q730	A-2	②
IC512	C-1	Q731	A-1	②
IC514	B-2	Q732	A-1	②
IC701	A-2	Q733	A-2	②
IC702	D-3	Q734	A-1	②
IC703	A-1	Q735	A-1	②
IC704	A-2	Q7700	B-3	②
IC705	A-2	Q7701	B-3	②
IC706	A-1	Q7702	B-3	②
IC707	A-1	Q7703	B-3	②
IC708	A-1	Q7704	B-4	②
IC710	B-1	Q7705	B-4	②
IC711	B-1	Q7706	A-3	②
IC720	B-1	Q7707	A-3	②
IC721	B-1	Q7708	A-3	②
IC722	D-1	Q7709	A-3	②
IC900	A-3	Q7710	A-3	②
IC7700	B-3	Q7711	A-3	②
IC7701	A-3	Q7712	A-3	②
IC7702	B-3	DIODE		
IC7703	A-3			
IC7704	B-3			
TRANSISTOR		D001	D-4	⑦
		D002	D-4	⑦
		D003	C-4	③
		D302	B-4	③
		D501	B-2	⑨
		D502	B-2	⑪
		D701	A-1	③
		D702	A-1	③
		CRYSTAL		
		X001	C-4	
		X501	B-2	
		X502	B-2	

***: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 53)**

BB

DRC-FILM, MID-XA, RGB DECODER,
ENGINE CONTROL

— BB BOARD (Conductor Side) —



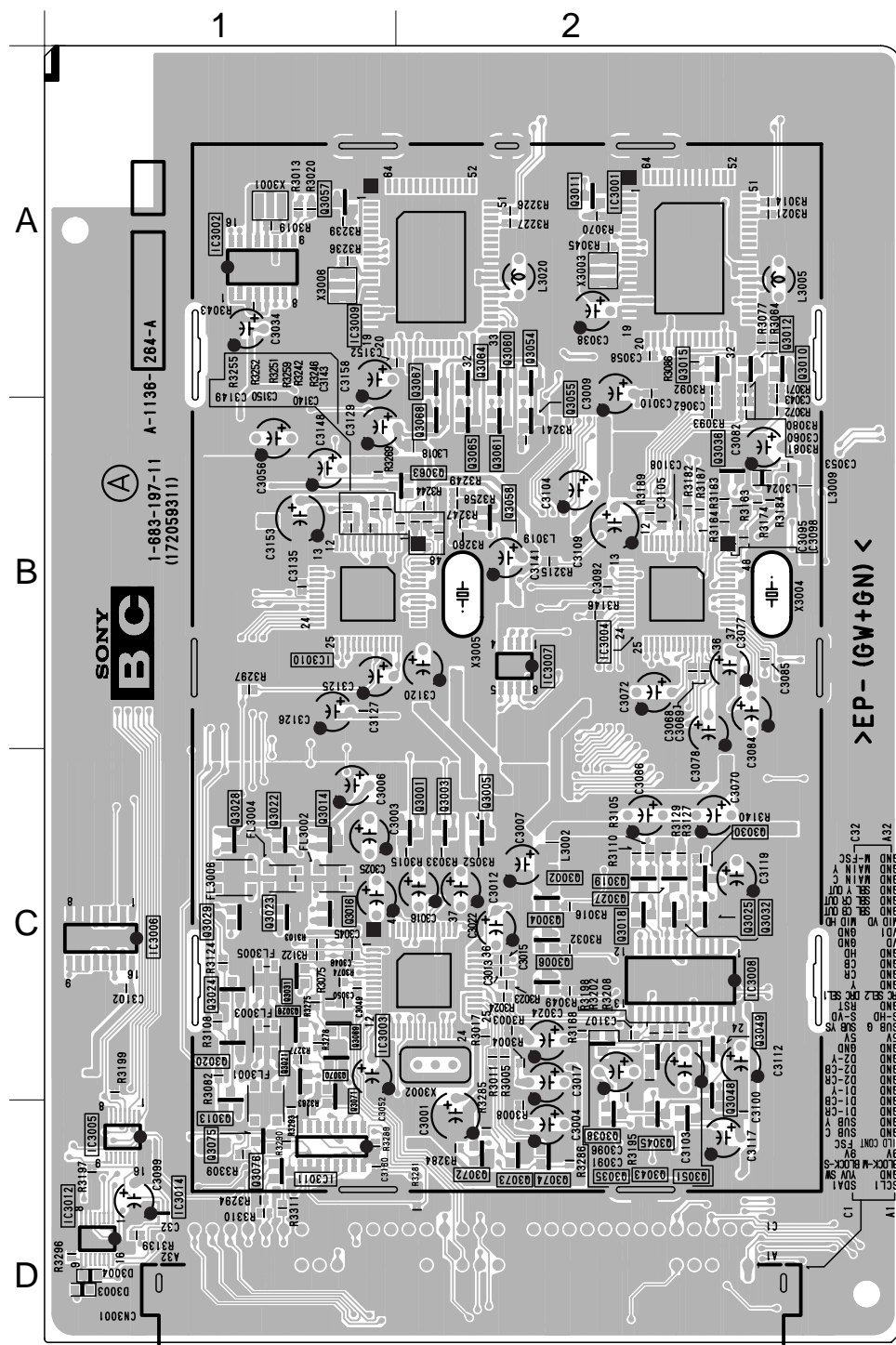
• BB BOARD SEMICONDUCTOR LOCATION
(Conductor Side)

TRANSISTOR		
Q002	D-1	①
Q003	D-1	①
Q219	D-4	①
Q220	D-3	①
Q221	D-4	①
Q302	B-2	①
Q303	D-2	①
Q305	C-2	①
Q401	C-3	①
Q402	C-3	①
Q403	C-3	①
Q404	D-3	①
Q504	B-2	①
Q505	B-2	①
Q506	B-2	①
Q507	B-3	①
Q509	B-3	①
Q713	E-4	①
Q714	A-3	①
Q715	E-4	①
Q716	A-4	①
Q717	A-4	①
Q718	E-4	①
Q719	A-4	①
Q722	A-4	①
Q724	E-4	①
Q727	E-4	①
Q728	E-4	①
DIODE		
D301	C-2	③
D703	A-4	③
D704	A-4	③
D705	A-4	③
D707	A-4	③

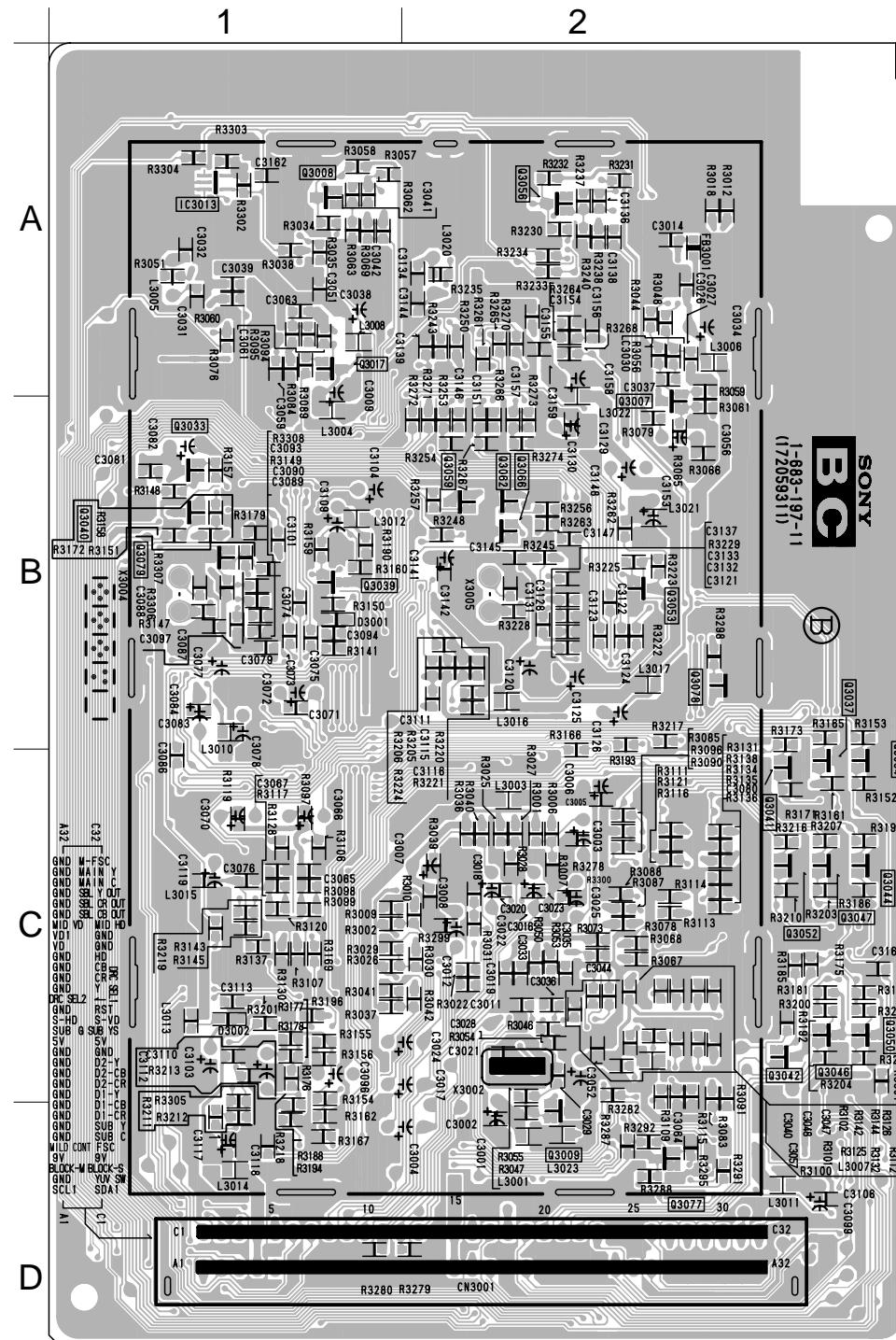
*: Refer to Terminal name of semiconductors in silk
screen printed circuit (see page 53)

MAIN/SUB YCT CCD,
V-CHIP, COMPONENT I/F

— BC BOARD (Component Side) —



— BC BOARD (Conductor Side) —



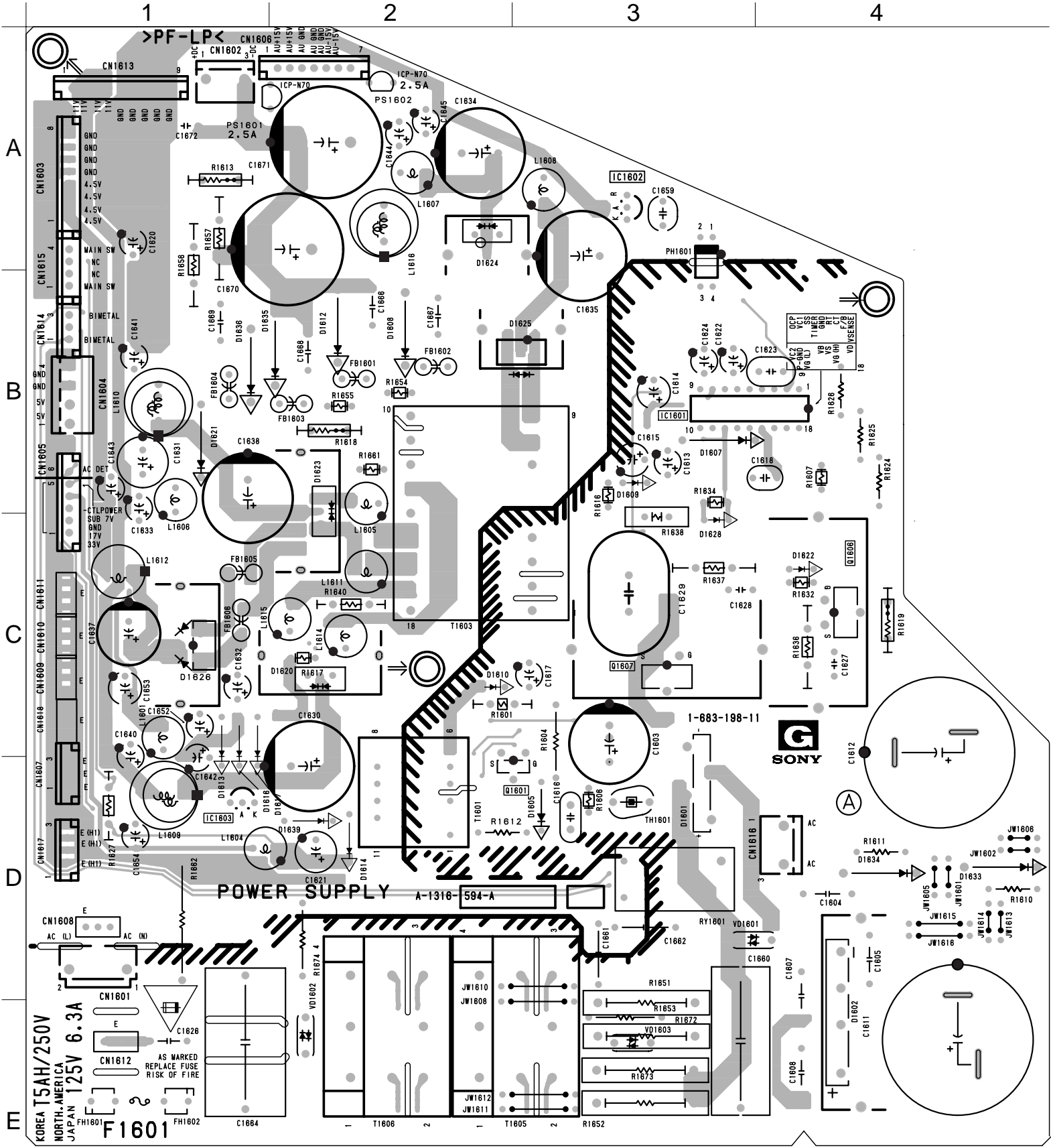
- **BC BOARD SEMICONDUCTOR LOCATION**

[illegible]

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 53)

G [POWER SUPPLY]

— G BOARD (Component Side) —

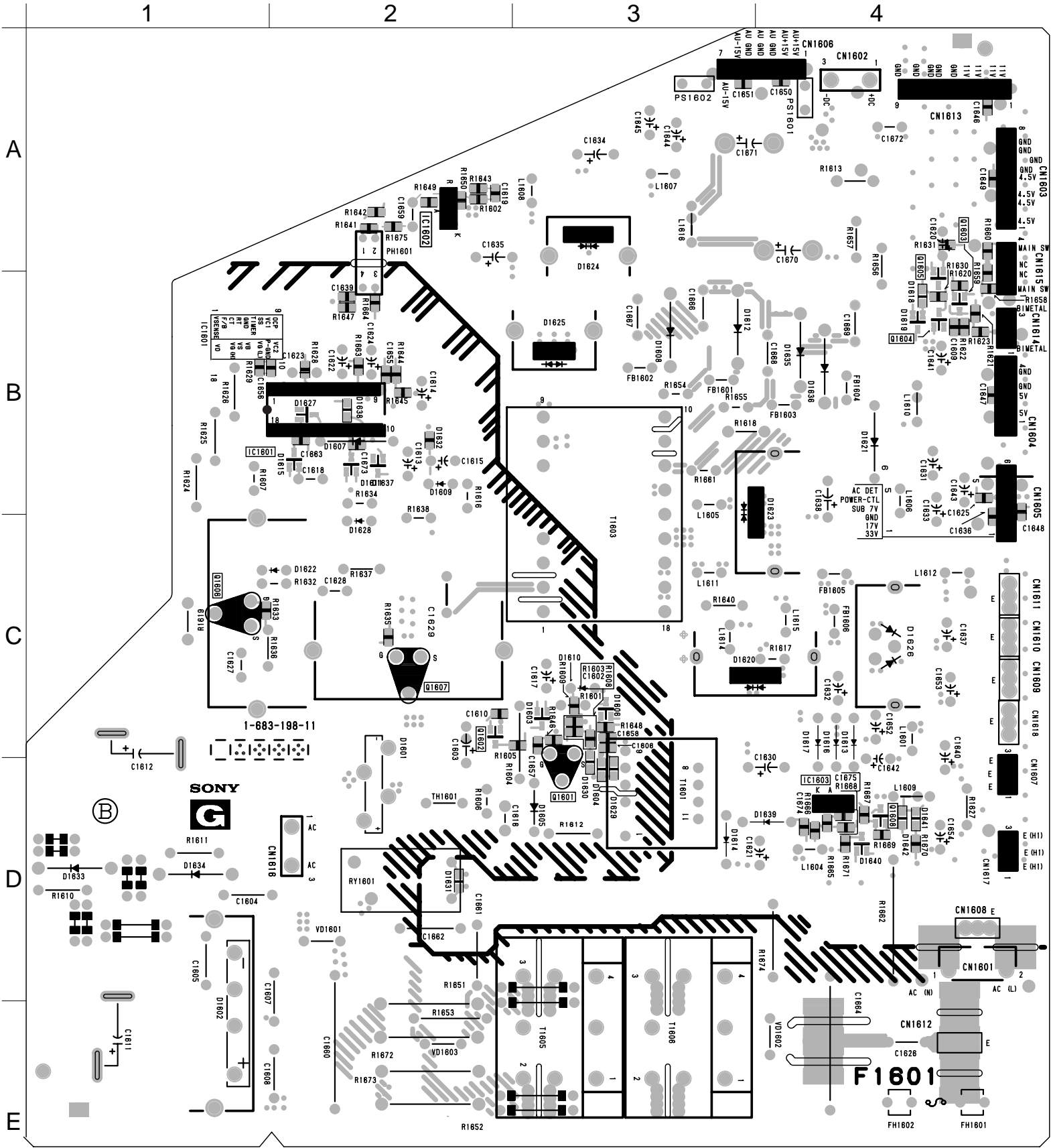


• G BOARD SEMICONDUCTOR LOCATION
(Component Side)

IC	
IC1601	B-3
IC1602	A-3
TRANSISTOR	
Q1601	D-3
Q1606	C-4
Q1607	C-3
DIODE	
D1601	D-3
D1602	E-5
D1605	D-3
D1607	B-3
D1608	B-2
D1609	B-3
D1610	C-2
D1612	B-2
D1613	C-1
D1614	D-2
D1616	C-1
D1617	C-1
D1620	C-2
D1621	B-1
D1623	B-2
D1624	A-2
D1625	B-3
D1626	C-1
D1633	D-4
D1634	D-4
D1635	B-2
D1636	B-1

G [POWER SUPPLY]

— G BOARD (Conductor Side) —



• G BOARD SEMICONDUCTOR LOCATION
(Conductor Side)

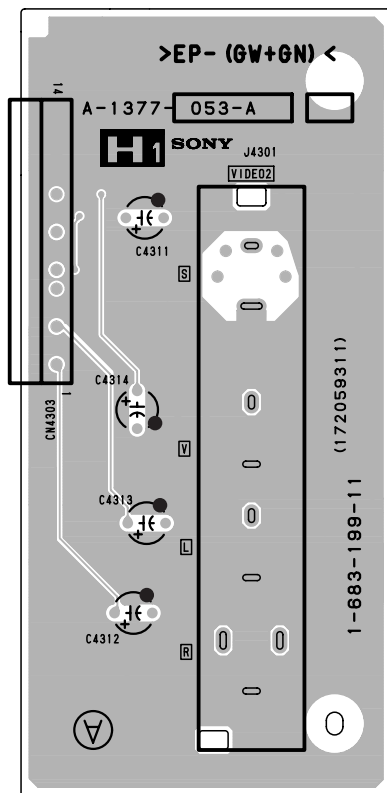
IC			
IC1601	B-2		
IC1602	A-2		
TRANSISTOR			
Q1602	C-2	*	①
Q1603	B-4		①
Q1604	B-4		①
Q1605	B-4		①
DIODE			
D1603	C-3	*	④
D1604	D-3		③
D1606	C-3		④
D1618	B-4		③
D1619	B-4		④
D1629	D-3		④
D1630	D-3		③
D1631	D-2		③
D1638	B-2		③

※: Refer to Terminal name of semiconductors in silk
screen printed circuit (see page 53)

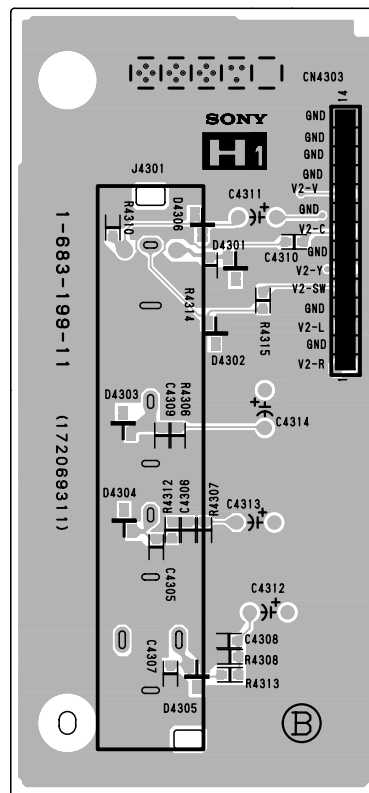
H1

[AV INPUT]

— H1 BOARD (Component Side) —



— H1 BOARD (Conductor Side) —



H1 BOARD

Terminal name of semiconductors
in silk screen printed circuit (*)

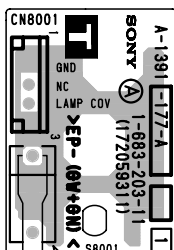
Ref.	*
D4301 - D4306	⑧

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 53)

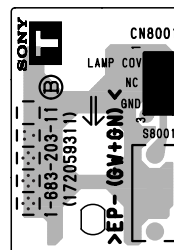
T

[LAMP COVER]

— T BOARD (Component Side) —



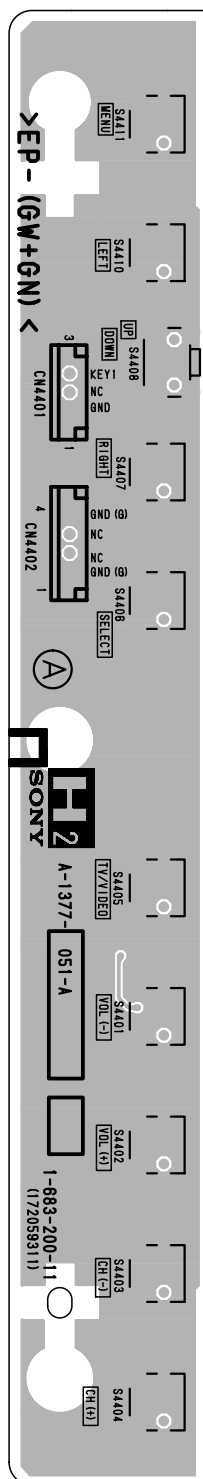
— T BOARD (Conductor Side) —



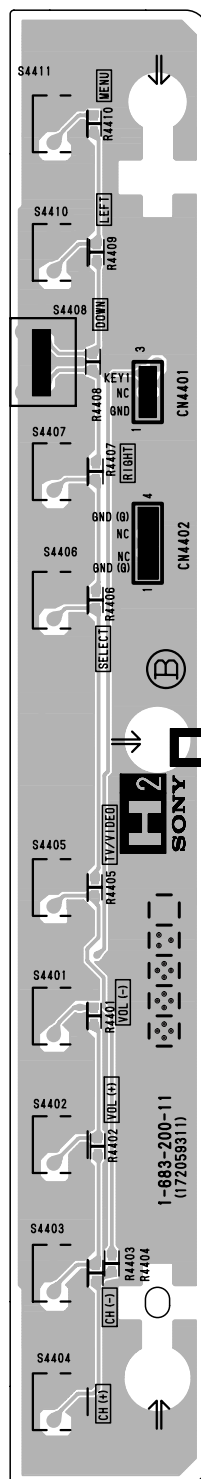
H2

[USER CONTROL]

— H2 BOARD (Component Side) —

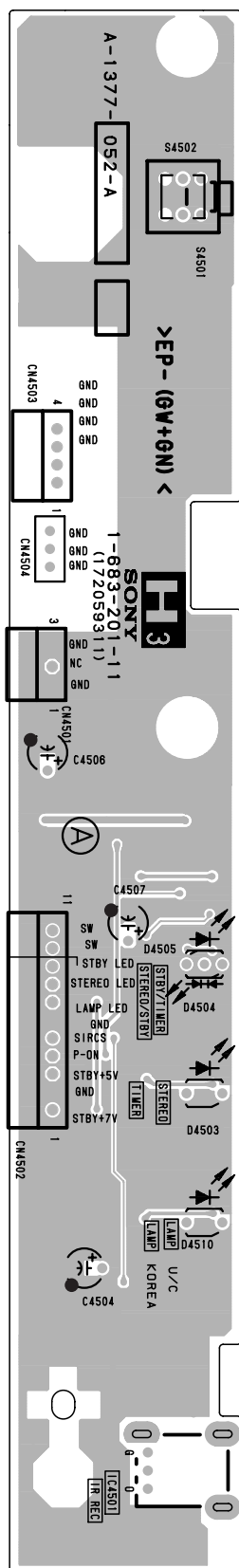


— H2 BOARD (Conductor Side) —

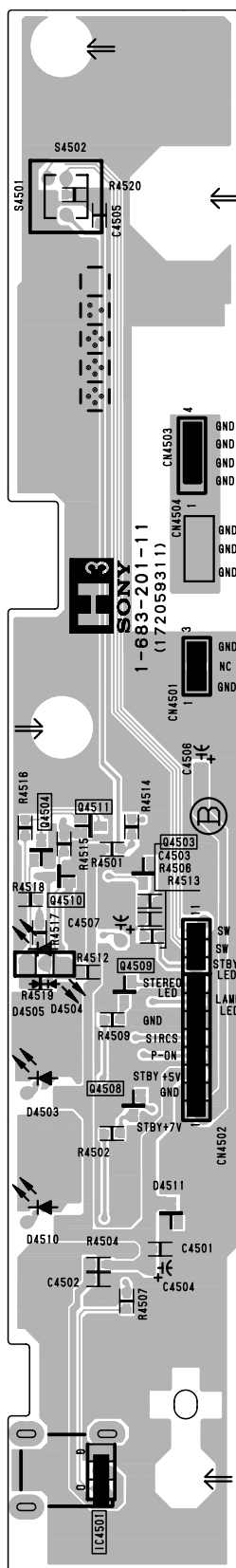


H3 [MAIN SWITCH,
IR RECEIVER]

— H3 BOARD (Component Side) —



— H3 BOARD (Conductor Side) —

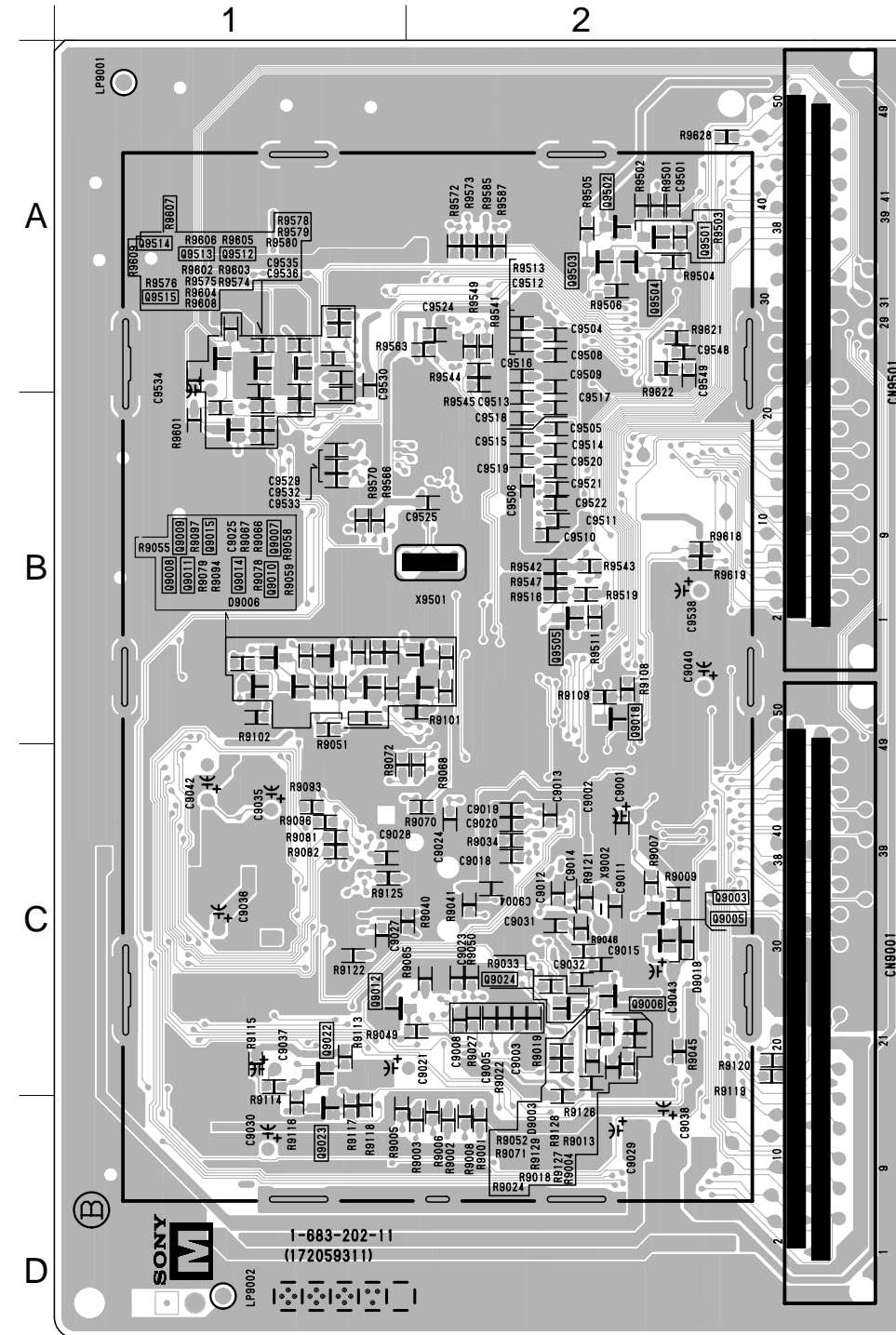
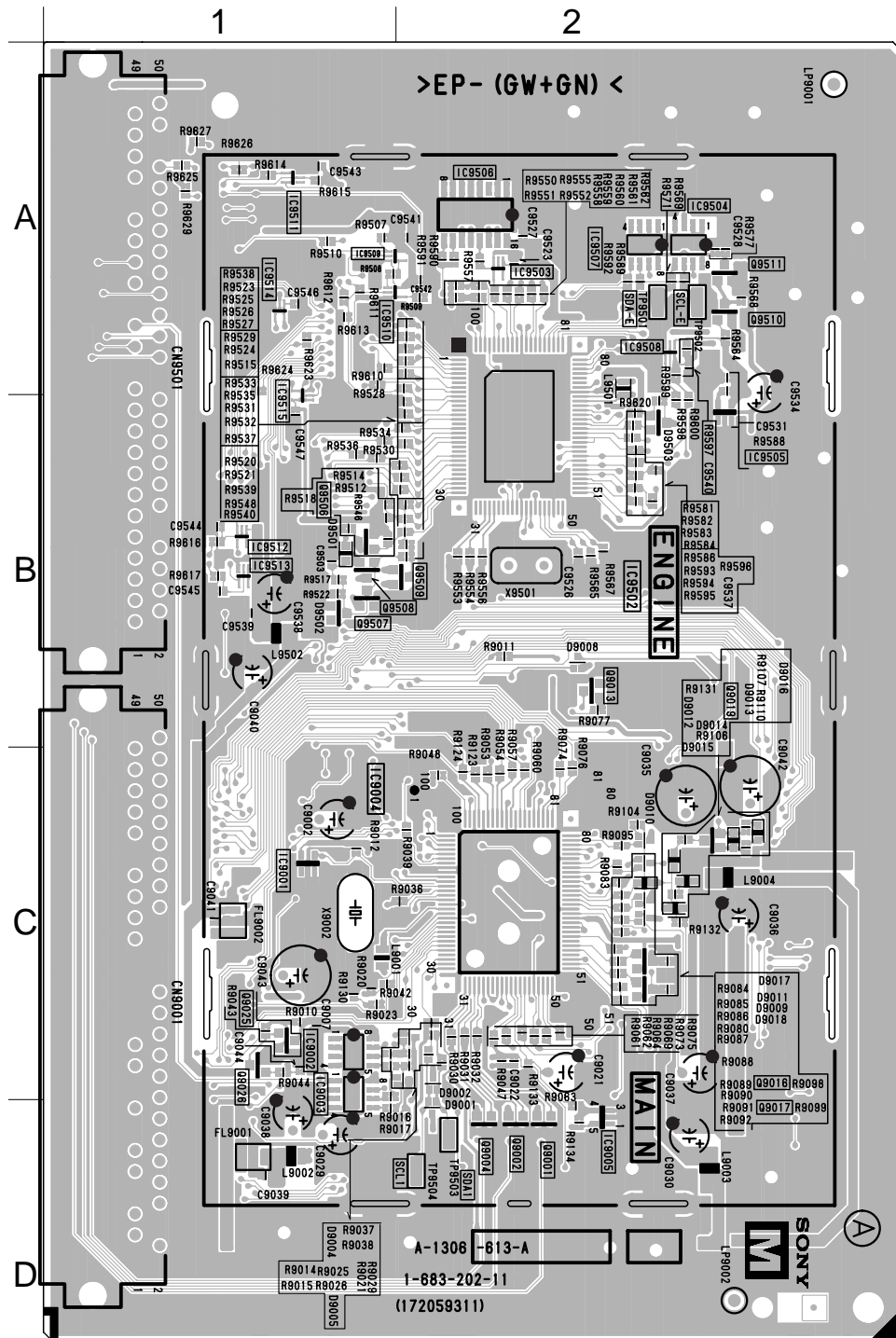


H3 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
Q4503, Q4508 Q4509	①

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 53)

— M BOARD (Conductor Side) —



- M BOARD SEMICONDUCTOR LOCATION

IC				Q9025		C-1	(2)
(Component Side)		(Conductor Side)		Q9026	C-1		(2)
IC9001	C-1			Q9501		A-2	(1)
IC9002	C-1			Q9502		A-2	(1)
IC9003	C-1			Q9503		A-2	(1)
IC9004	C-2			Q9504		A-2	(1)
IC9005	D-2			Q9505		B-2	(1)
IC9502	B-2			Q9506	B-1		(2)
IC9503	A-2			Q9507	B-1		(2)
IC9504	A-2			Q9508	B-1		(2)
IC9505	B-2			Q9509	B-2		(2)
IC9506	A-2			Q9510	A-2		(2)
IC9507	A-2			Q9511	A-2		(2)
IC9508	A-2			Q9512		A-1	(1)
IC9509	A-1			Q9513		A-1	(1)
IC9510	A-1			Q9514		A-1	(1)
IC9511	A-1			Q9515		B-1	(1)
IC9512	B-1			DIODE			
IC9513	B-1			(Component Side)		(Conductor Side)	*
IC9514	A-1			D9001	D-2		(9)
IC9515	B-1			D9002	C-2		(11)
TRANSISTOR				D9003		C-2	(3)
(Component Side)		(Conductor Side)		D9004	C-2		(9)
			*	D9005	C-2		(11)
Q9001	D-2		(2)	D9008	B-2		(9)
Q9002	D-2		(2)	D9009	C-2		(9)
Q9003		C-2	(1)	D9010	C-2		(9)
Q9004	D-2		(2)	D9011	C-2		(3)
Q9005		C-2	(1)	D9012	C-2		(3)
Q9006		C-2	(1)	D9013	C-2		(3)
Q9007		B-2	(1)	D9014	C-2		(3)
Q9008		B-1	(1)	D9015	C-2		(3)
Q9009		B-1	(1)	D9016	C-2		(3)
Q9010		B-2	(1)	D9017	C-2		(9)
Q9011		B-1	(1)	D9018	C-2		(9)
Q9012		C-1	(1)	D9019		C-2	(3)
Q9013	B-2		(2)	D9501	B-1		(3)
Q9014		B-1	(1)	D9502	B-1		(5)
Q9015		B-1	(1)	CRYSTAL			
Q9016	C-2		(2)	(Component Side)		(Conductor Side)	
Q9017	C-2		(2)	X9002	C-1	C-2	
Q9018		B-2	(1)	X9501	B-2	B-2	
Q9019	C-2		(2)				
Q9022		C-1	(1)				
Q9023		D-1	(1)				
Q9024		C-2	(1)				

***: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 53)**



AV IN/OUT, AV SWITCH,
AUDIO PROCESS

— U BOARD (Component Side) —


$$EP - (GW + GN) <$$

B

C

- **U BOARD SEMICONDUCTOR LOCATION**
(Component Side)

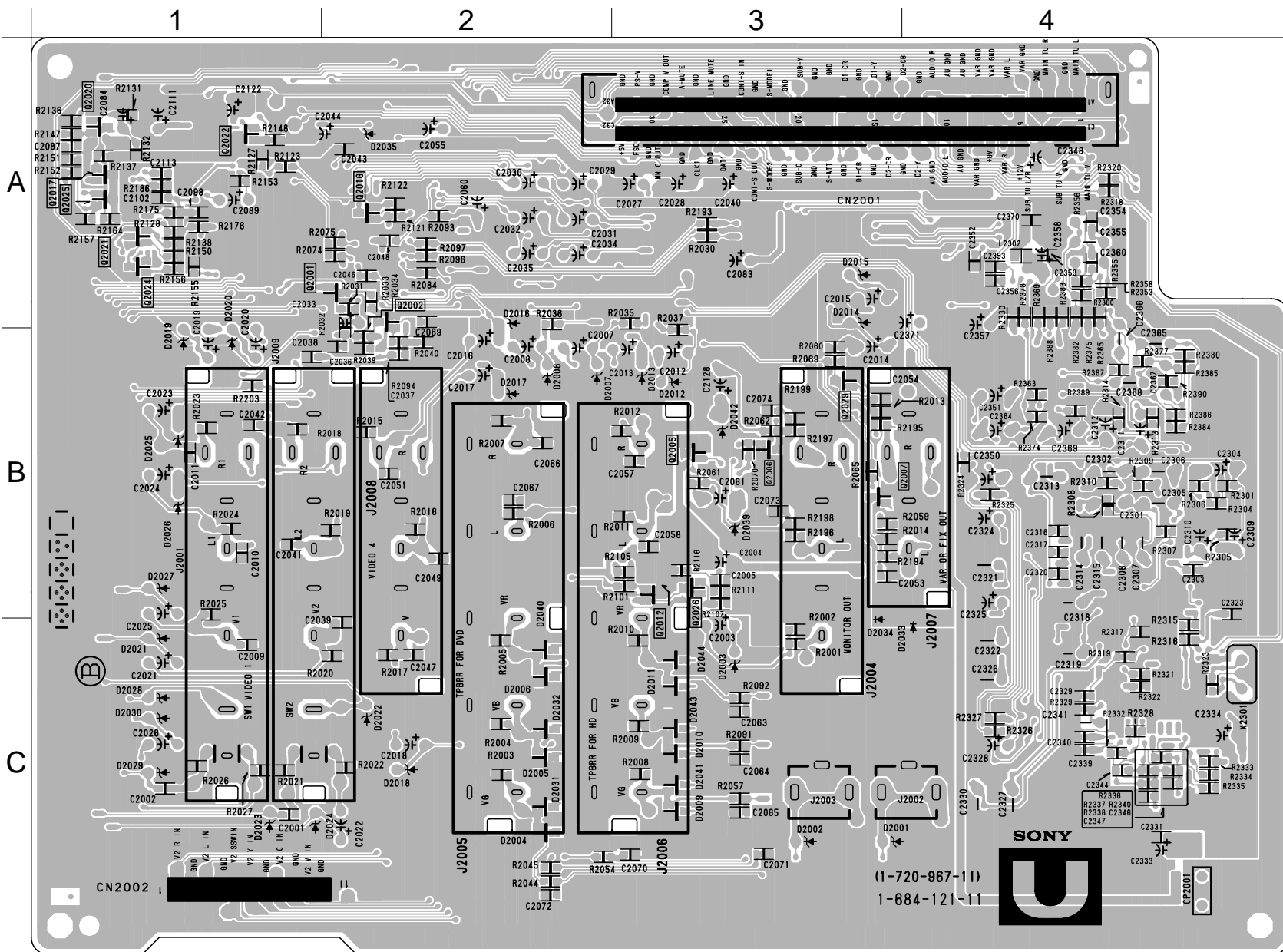
IC		
IC2001	C-3	
IC2003	C-3	
IC2004	C-2	
IC2007	C-1	
IC2301	B-2	
IC2302	C-4	
IC2305	C-4	
TRANSISTOR		
		*
Q2003	C-2	②
Q2004	C-2	②
Q2008	C-2	②
Q2009	C-2	②
Q2013	C-2	②
Q2015	C-2	②
Q2019	C-1	②
Q2027	C-1	②
Q2028	C-1	②
DIODE		
D2001	A-3	
D2002	A-3	
D2003	B-3	
D2007	B-2	
D2008	B-2	
D2012	B-3	
D2013	B-3	
D2014	C-3	
D2015	C-3	
D2016	C-2	
D2017	B-2	
D2018	A-2	
D2019	C-1	
D2020	C-1	
D2021	B-1	
D2022	A-2	
D2023	A-1	
D2024	A-1	
D2025	B-1	
D2026	B-1	
D2027	B-1	
D2029	A-1	
D2030	A-1	
D2033	B-4	
D2034	B-3	
D2035	C-2	
D2039	B-3	
D2042	B-3	
CRYSTAL		
X2301	A-4	

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 53)



AV IN/OUT, AV SWITCH,
AUDIO PROCESS

— U BOARD (Conductor Side) —













- **U BOARD SEMICONDUCTOR LOCATION
(Conductor Side)**

TRANSISTOR		
		*
Q2001	A-2	①
Q2002	A-2	①
Q2005	B-3	①
Q2006	B-3	①
Q2007	B-3	①
Q2012	B-2	①
Q2016	A-2	①
Q2017	A-1	①
Q2020	A-1	①
Q2021	A-1	①
Q2022	A-1	①
Q2024	A-1	①
Q2025	A-1	①
Q2026	B-2	①
Q2029	B-3	①
DIODE		
		*
D2001	C-3	—
D2002	C-3	—
D2003	C-3	—
D2004	C-2	⑥
D2005	C-2	⑥
D2006	C-2	⑥
D2007	B-2	—
D2008	B-2	—
D2009	C-3	⑥
D2010	C-3	⑥
D2011	C-3	⑥
D2012	B-3	—
D2013	B-3	—
D2014	A-3	—
D2015	A-3	—
D2016	A-2	—
D2017	B-2	—
D2018	C-2	—
D2019	B-1	—
D2020	B-1	—
D2021	C-1	—
D2022	C-2	—
D2023	C-1	—
D2024	C-1	—
D2025	B-1	—
D2026	B-1	—
D2027	B-1	—
D2029	C-1	—
D2030	C-1	—
D2031	C-2	⑥
D2032	C-2	⑥
D2033	C-4	—
D2034	C-3	—
D2035	A-2	—
D2039	B-3	—
D2040	C-2	⑥
D2041	C-3	⑥
D2042	B-3	—
D2043	C-3	⑥
D2044	C-3	⑥




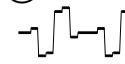

***: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 53)**

4-5. WAVEFORMS

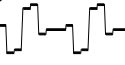




• BB (1/9) BOARD WAVEFORMS

①  2.2 Vp-p (54 MHz)	②  3.2 Vp-p (15.87 kHz)	③  3.0 Vp-p (H)	④  3.2 Vp-p (V)	⑤  3.2 Vp-p (H)	⑥  1.4 Vp-p (54 MHz)
⑦  3.3 Vp-p (V)	⑧  4.0 Vp-p (13.5 MHz)	⑨  3.2 Vp-p (15.87 kHz)	⑩  3.3 Vp-p (H)		






• BB (2/9) BOARD WAVEFORMS

⑪  3.3 Vp-p (H)	⑫  1.0 Vp-p (H)	⑬  1.1 Vp-p (H)	⑭  1.1 Vp-p (H)	⑮  4.0 Vp-p (13.5 MHz)
--	--	--	--	--




• BB (3/9) BOARD WAVEFORMS

⑯  680 mVp-p (H)	⑰  630 mVp-p (H)	⑱  560 mVp-p (H)	⑲  3.2 Vp-p (V)	⑳  3.2 Vp-p (H)
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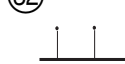





• BB (4/9) BOARD WAVEFORMS

㉑  3.2 Vp-p (20 MHz)	㉒  3.8 Vp-p (H)	㉓  3.5 Vp-p (V)	㉔  5.1 Vp-p (H)	㉕  5.1 Vp-p (V)
---	--	--	--	---


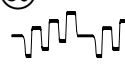

• BB (5/9) BOARD WAVEFORMS

㉖  3.6 Vp-p (25 MHz)	㉗  4.9 Vp-p (H)	㉘  4.9 Vp-p (33.3 kHz)
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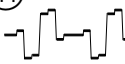
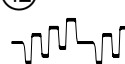


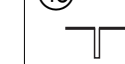




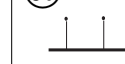






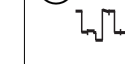
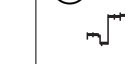

• BB (6/9) BOARD WAVEFORMS

㉙  3.6 Vp-p (25 MHz)	㉚  3.4 Vp-p (V)	㉛  3.2 Vp-p (16.6 kHz)	㉜  3.2 Vp-p (V)	㉝  3.2 Vp-p (H)	㉞  1.3 Vp-p (18.54 MHz)
㉟  1.2 Vp-p (74.17 MHz)	㊱  3.1 Vp-p (V)	㊲  3.1 Vp-p (H)			




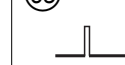



• BB (7/9) BOARD WAVEFORMS

㊳  680 mVp-p (H)	㊴  760 mVp-p (H)	㊵  760 mVp-p (H)
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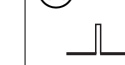
• BB (8/9) BOARD WAVEFORMS

㊶  680 mVp-p (H)	㊷  650 mVp-p (H)	㊸  560 mVp-p (H)	㊹  5.0 Vp-p (V)	㊺  5.1 Vp-p (H)	㊻  3.1 Vp-p (H)
㊼  2.9 Vp-p (H)	㊽  3.2 Vp-p (H)	㊾  3.8 Vp-p (H)	㊿  3.7 Vp-p (V)	㋀  4.9 Vp-p (16.6 kHz)	㋁  4.2 Vp-p (H)
㋂  5.1 Vp-p (V)	㋃  5.1 Vp-p (H)	㋄  5.0 Vp-p (H)	㋅  5.0 Vp-p (V)	㋆  2.1 Vp-p (H)	㋇  1.9 Vp-p (H)
㋈  2.0 Vp-p (H)					













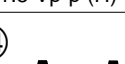
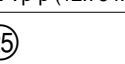
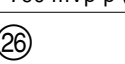
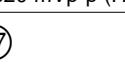
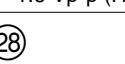
• BB (9/9) BOARD WAVEFORMS

㋉  4.3 Vp-p (H)	㋊  4.2 Vp-p (V)	㋋  3.5 Vp-p (V)	㋌  5.1 Vp-p (H)	㋍  1.2 Vp-p (H)	㋎  1.3 Vp-p (H)
㋏  1.2 Vp-p (H)					












• BC (1/3) BOARD WAVEFORMS

①  500 mVp-p (3.58 MHz)	②  3.7 Vp-p (H)	③  3.5 Vp-p (V)	④  5.1 Vp-p (H)	⑤  5.0 Vp-p (V)	⑥  2.1 Vp-p (12 MHz)
⑦  2.2 Vp-p (12.75 MHz)	⑧  4.2 Vp-p (V)	⑨  4.2 Vp-p (H)	⑩  3.5 Vp-p (V)	⑪  3.8 Vp-p (H)	




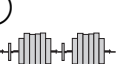



• BC (2/3) BOARD WAVEFORMS

 690 mVp-p (H)	 690 mVp-p (H)	 740 mVp-p (14.32 MHz)	 5.0 Vp-p (H)	 5.0 Vp-p (V)	 2.0 Vp-p (12 MHz)
 1.5 Vp-p (H)	 2.2 Vp-p (12.75 MHz)	 790 mVp-p (H)	 620 mVp-p (H)	 1.6 Vp-p (H)	 1.0 Vp-p (H)
 1.0 Vp-p (H)	 1.0 Vp-p (H)	 3.7 Vp-p (H)	 3.9 Vp-p (H)	 3.5 Vp-p (V)	




• BC (3/3) BOARD WAVEFORMS

 3.8 Vp-p (H)	 3.5 Vp-p (V)	 4.1 Vp-p (V)	 4.2 Vp-p (H)	 100 mVp-p (4 MHz)	 1.2 Vp-p (H)
 1.4 Vp-p (H)	 910mVp-p (H)	 1.3 Vp-p (H)	 1.2 Vp-p (H)	 1.4 Vp-p (H)	


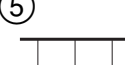

• BC4 BOARD WAVEFORMS

 4.5 Vp-p (20 MHz)	 2.1 Vp-p (H)	 2.1 Vp-p (H)	 1.0 Vp-p (H)	 1.9 Vp-p (H)	 1.7 Vp-p (H)
 1.3 Vp-p					

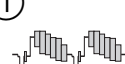
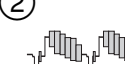



• M (1/3) BOARD WAVEFORMS

 5.0 Vp-p (H)	 5.0 Vp-p (V)	 2.7 Vp-p (10 MHz)
---	---	--

• M (2/3) BOARD WAVEFORMS

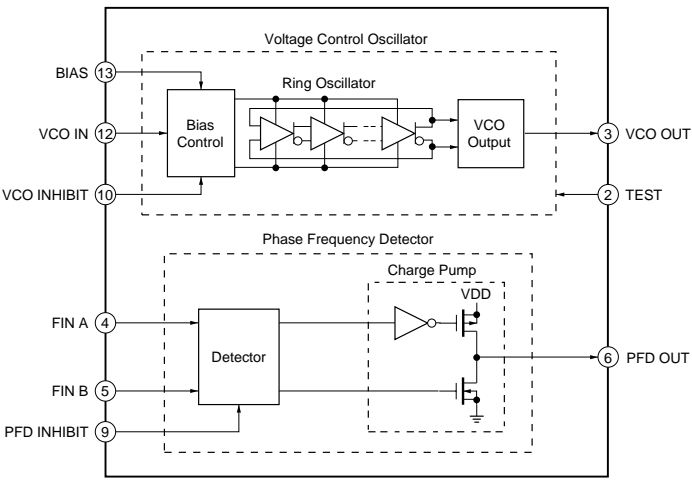
 5.0 Vp-p (H)	 5.0 Vp-p (V)	 1.6 Vp-p (20 MHz)
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• U (2/3) BOARD WAVEFORMS

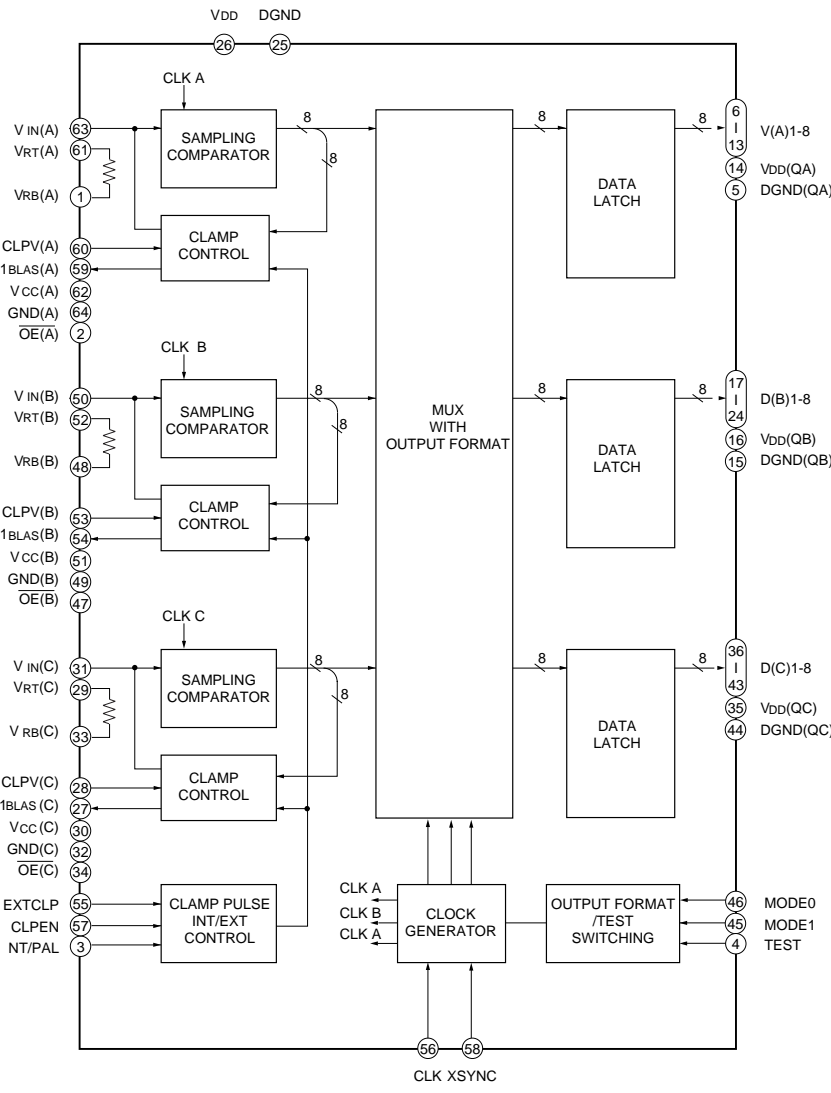
 2.1 Vp-p (H)	 2.1 Vp-p (H)	 970 mVp-p (H)	 750 mVp-p (H)	 510 mVp-p (3.58 MHz)
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4-6. IC BLOCK DIAGRAMS

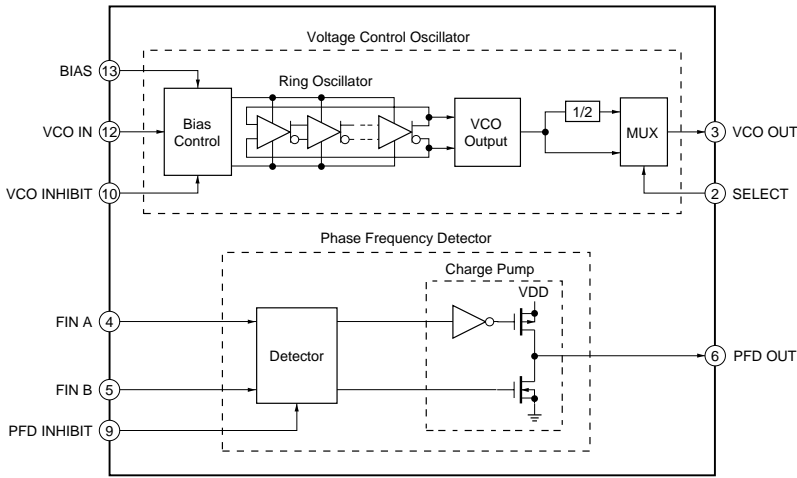
- BB (1/9) BOARD IC301
TCL2933IPWR



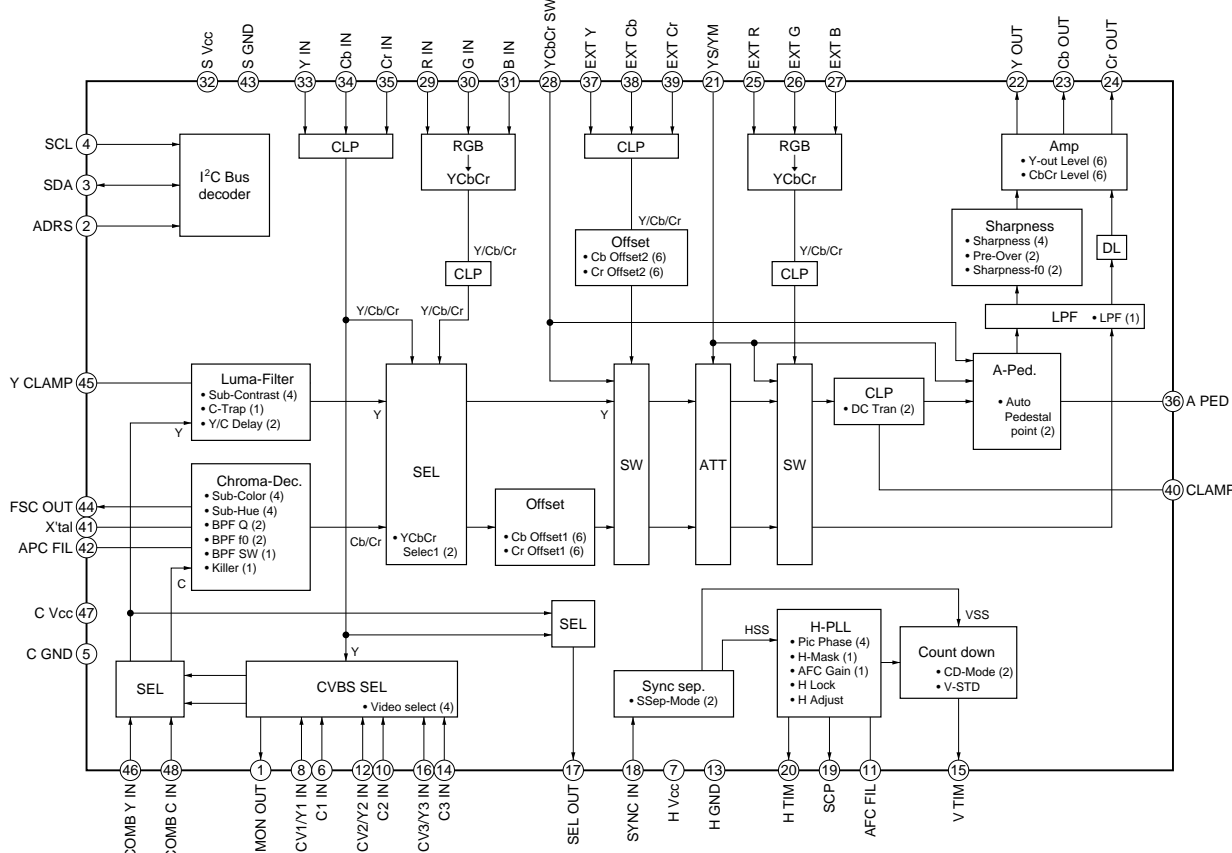
- BB (2/9) BOARD IC305
TLC5733AIPM



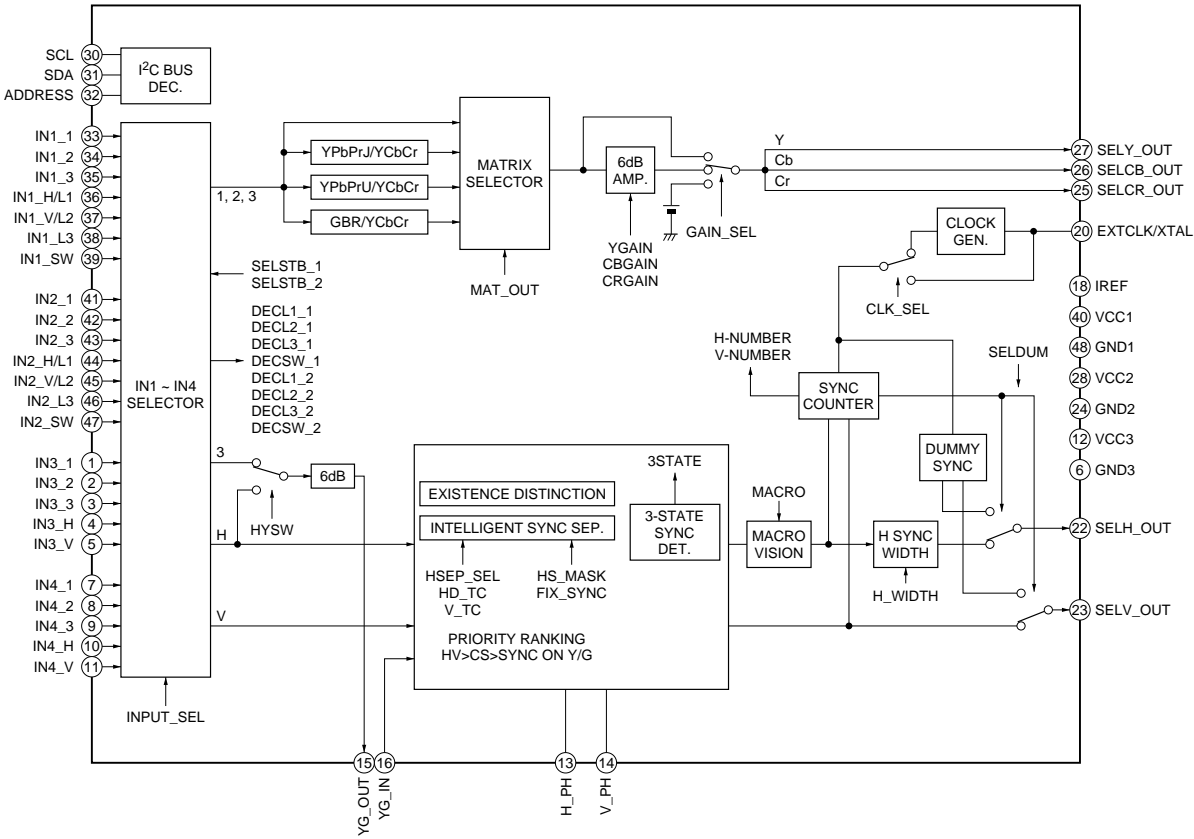
- BB (2/9) BOARD IC306
TCL2932IPWR
- BB (5/9) BOARD IC403
TLC2932IPWR



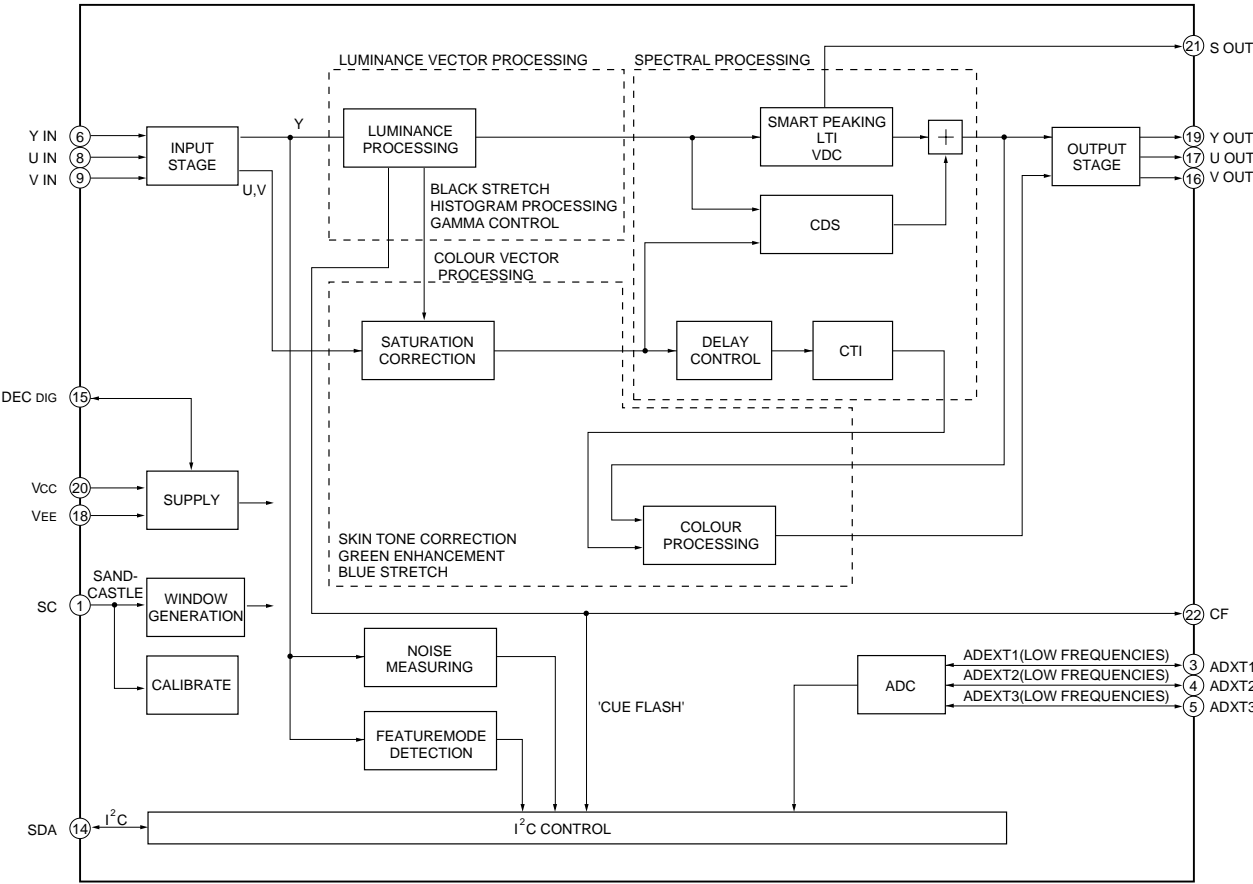
- BC (1/3) BOARD IC3010
CXA2103Q
- BC (2/3) BOARD IC3004
CXA2103Q



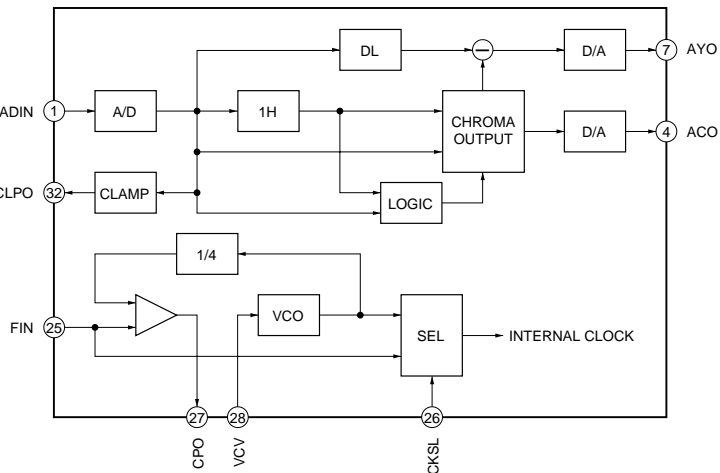
• BC (3/3) BOARD IC3003
CXA2151Q



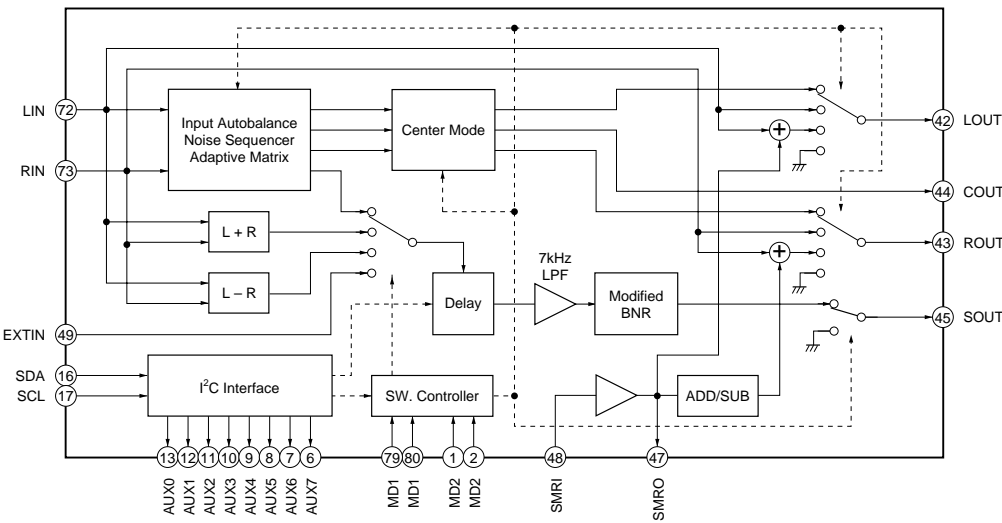
• BC (3/3) BOARD IC3008
TDA9178T



• U (2/3) BOARD IC2007
CXD2073Q

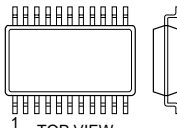


• U (3/3) BOARD IC2301
NJW1106FC2



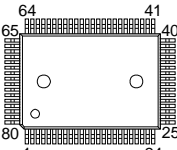
4-7. SEMICONDUCTORS

BH3868BFS-E2



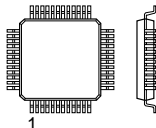
32pin SOP

CXA2101AQ
NJW1106FC2



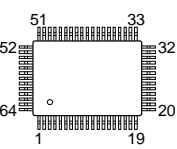
TOP VIEW

CXA2103Q
CXA2151Q
CXD2309Q-T6



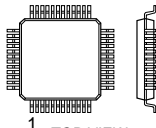
TOP VIEW

CXA2069Q
CXP85840A-039Q



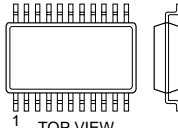
TOP VIEW

CXD2073Q-T4



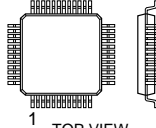
TOP VIEW

CXD2085M-T4
MC14052BF
MC14052BFEL
MC14538BF
MC14538BFEL
MC74LVX8053DR2
M52055FP
SN74LV4053ANSR
SN74LV4053APWR
74VHC123AMTCX
74VHC123ASJX



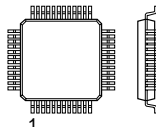
TOP VIEW

CXD2095AQ



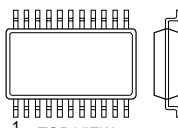
TOP VIEW

CXD9509AQ



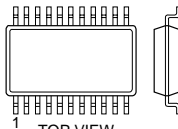
TOP VIEW

HY57V161610DTC-7TR



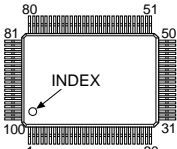
TOP VIEW

LM75CIMX-5
M24C04-MN6T(A)
M24C08-MN6T(A)
NJM2903M
NJM2903M-TE2
NJM4558M-TE2
NJM4558M-T2
TC7W04FU
TC7W04FU(TE12R)
TC7W08FU
TC7W08FU(TE12R)
μPC4558G2



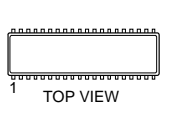
TOP VIEW

MB94P918PF-G-142
MB94P918PF-G-143
M306V2EEFP-180
μPD64082GF-3BA



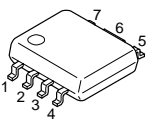
INDEX

MCZ3001D

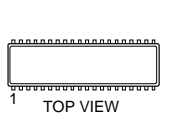


TOP VIEW

MM1476AF(TP)

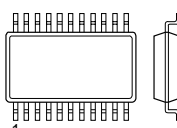


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μPD424210LE-60-E2



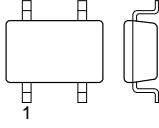
TOP VIEW

MT48LC2M32B2TG-6
MT48LC2M32B2TG-7



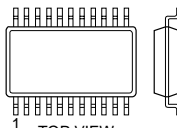
TOP VIEW

NJM2125F(Te2)
NJM2370U10-TE2
PST9120NL
PST9145NL
TC7SET00FU(Te85R)
TC7SET08FU(Te85L)
TC7SET08FU(Te85R)
TC7SH02FU
TC7SH02FU-TE85R
TC7SH04FU
TC7SH04FU-TE85R
TC7SH08FU-TE85R
TC7SH32FU-TE85R



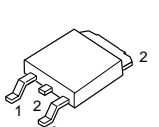
5pin CHIP

NJM2180M(Te2)

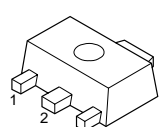


TOP VIEW

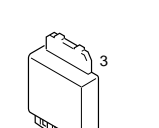
NJM78M12DLA(Te1)



NJM79L12UA
NJM79L12UA(Te1)

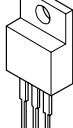


PQ07VZ012ZP
PQ3DZ53U

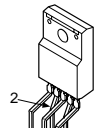


TOP VIEW

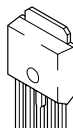
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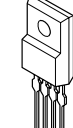
PQ1CG2032FZ



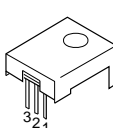
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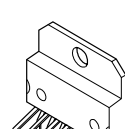
PQ30RV11
PQ30RV31



SBX1971-51P

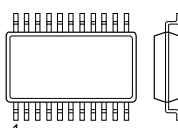


TDA7269A



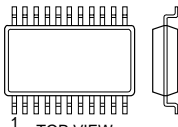
n=11 pin

TDA9178T/N1.118



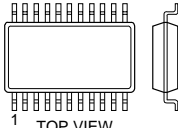
TOP VIEW

TEA6422DT



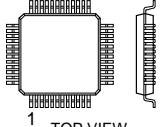
TOP VIEW

TLC2932IPWR
TLC2933IPWR-12



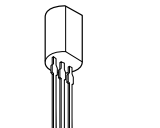
TOP VIEW

TLC5733AIPM



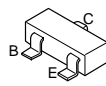
TOP VIEW

μPC1093J-1-T



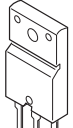
REF
ANODE
CATHODE

DTA114EKA-T146
DTA144EKA-T146
DTC114EK
DTC114EKA-T146
DTC144EKA
DTC144EKA-T146
2PB709AR-115
2PD601AR-115
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1162-G
2SA1226
2SA1226-T1E3E4
2SC1623-L5L6
2SC2223-F13
2SC2223-T1F13F14
2SC2412K-T-146-QR
2SD601A-Q-TX

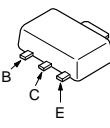


B
C
E

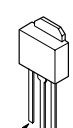
IRFIB7N50A-LF31



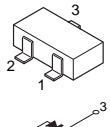
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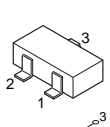
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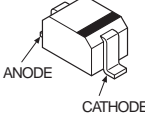
DAN202K
DAN202K-T-146
DAN202U
DAN202UT106
STZ6.8T
STZ6.8TT146



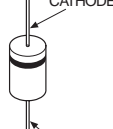
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DAP202K-T-146
DAP202U
DAP202UT106



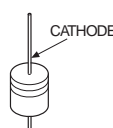
DTZ-TT11-6.8B
HZU16B2TRF
MA111-TX
MA113-(TX)
UDZSTE-173.6B
UDZSTE-173.9B
UDZSTE-176.8B
1SS355TE-17



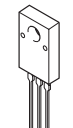
D1NL20U-TR
D1NS4
D1NS4-TA2
ERA22-08
ERA22-08TP3
UF4005PKG23



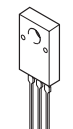
D1N20R
D1N20R-TR
MTZJ-T-77-10B
RD10ESB2
S2L60F
1SS133T-77



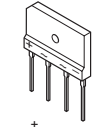
D10SC4M
D10SC4M-F
D10SC6M



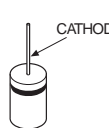
D10SC6MR



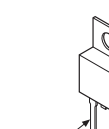
D2SB60A-F04
D6SB60L



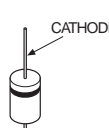
D2S6M
D2S6MTA1



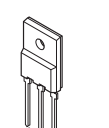
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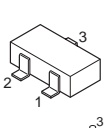
ERC04-06SE



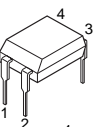
FCQ30A04



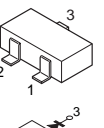
MA153-TX
1SS226



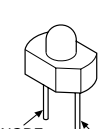
PC123FY2
PC123F2



RD15M-T1B2
RD5.6M-B2
RD5.6M-T1B2
RD6.8M-B2
RD6.8M-T1B2
02CZ5.6-TE85L



SLR-325VCT31



SECTION 5

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

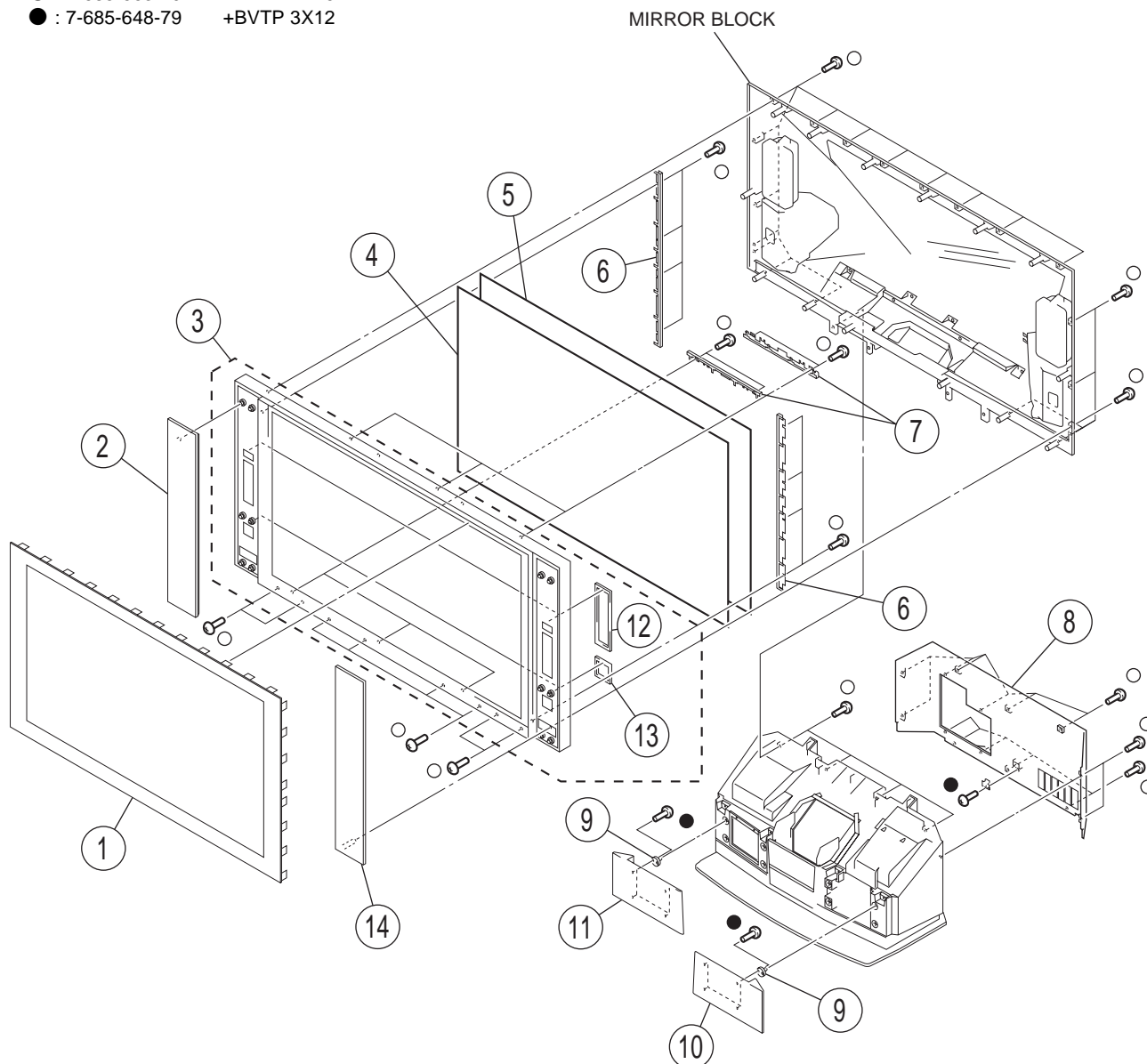
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. BEZEL SECTION

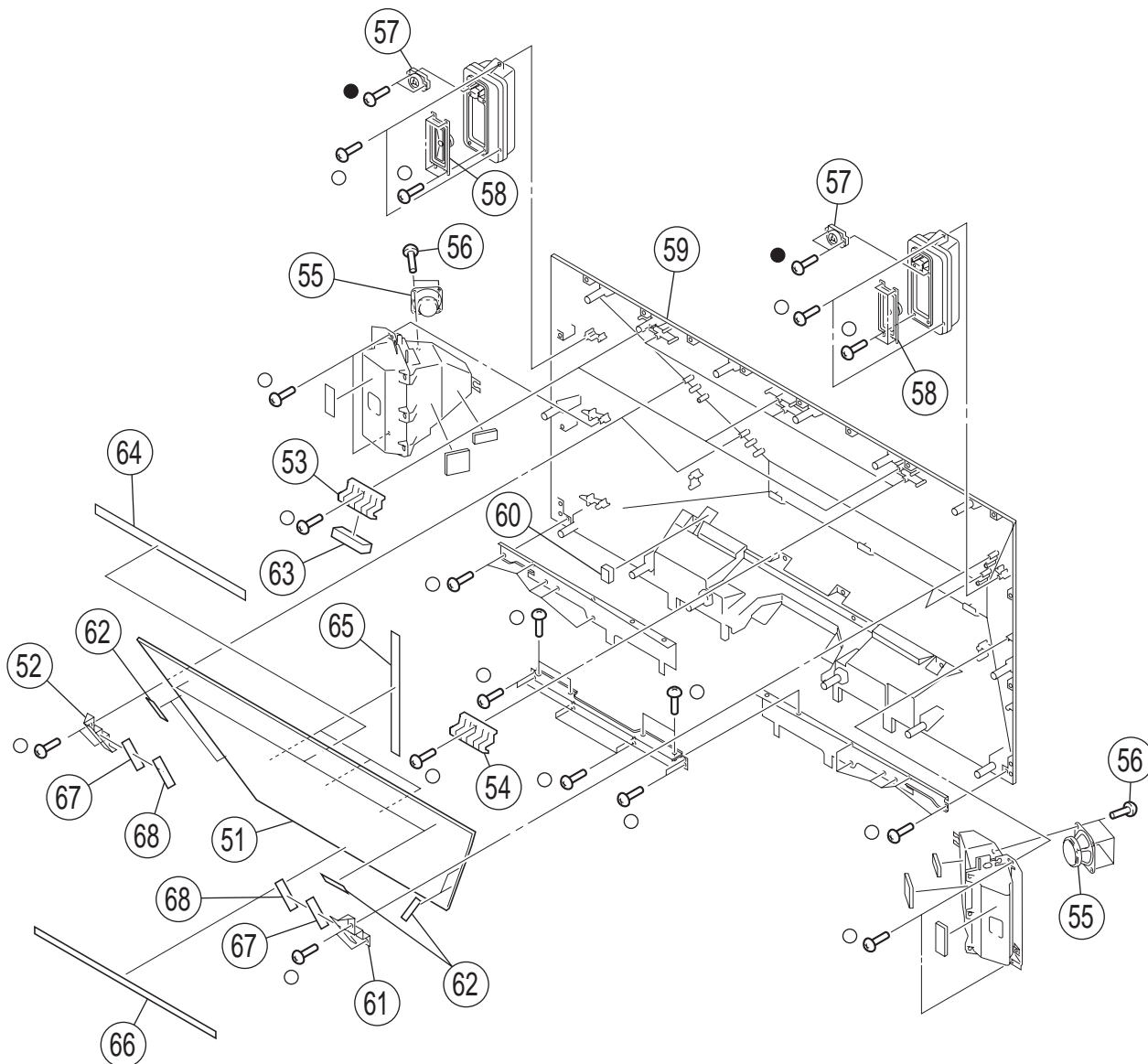
- : 7-685-663-79 +BVTP 4X16
 ● : 7-685-648-79 +BVTP 3X12



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	A-1601-754-A	CONTRAST SCREEN (RP) ASSY		8	X-4039-787-1	COVER (60) ASSY, REAR	
2	X-4039-784-1	ASSY, SPEAKER GRILLE (60L)		9	4-054-709-01	STRIKE	
3	X-4039-782-1	BEZEL (60) ASSY	12, 13	10	X-4039-777-1	COVER (R) ASSY, FRONT	
4	4-086-312-11	PLATE (60L), DIFFUSION		11	X-4039-776-1	COVER (L) ASSY, FRONT	
5	4-086-313-11	PLATE (60F), DIFFUSION		12	4-077-667-01	CUSHION (DUCT), SHIELD	
6	* X-4039-774-1	HOLDER (S) ASSY, SCREEN		13	4-077-665-01	CUSHION (SQUAWKER), SHIELD	
7	* X-4039-773-1	HOLDER (HS) ASSY, SCREEN		14	X-4039-785-1	ASSY, SPEAKER GRILLE (60R)	

5-2. MIRROR SECTION

- : 7-685-663-79 +BVTP 4X16
 ● : 7-685-648-79 +BVTP 3X12



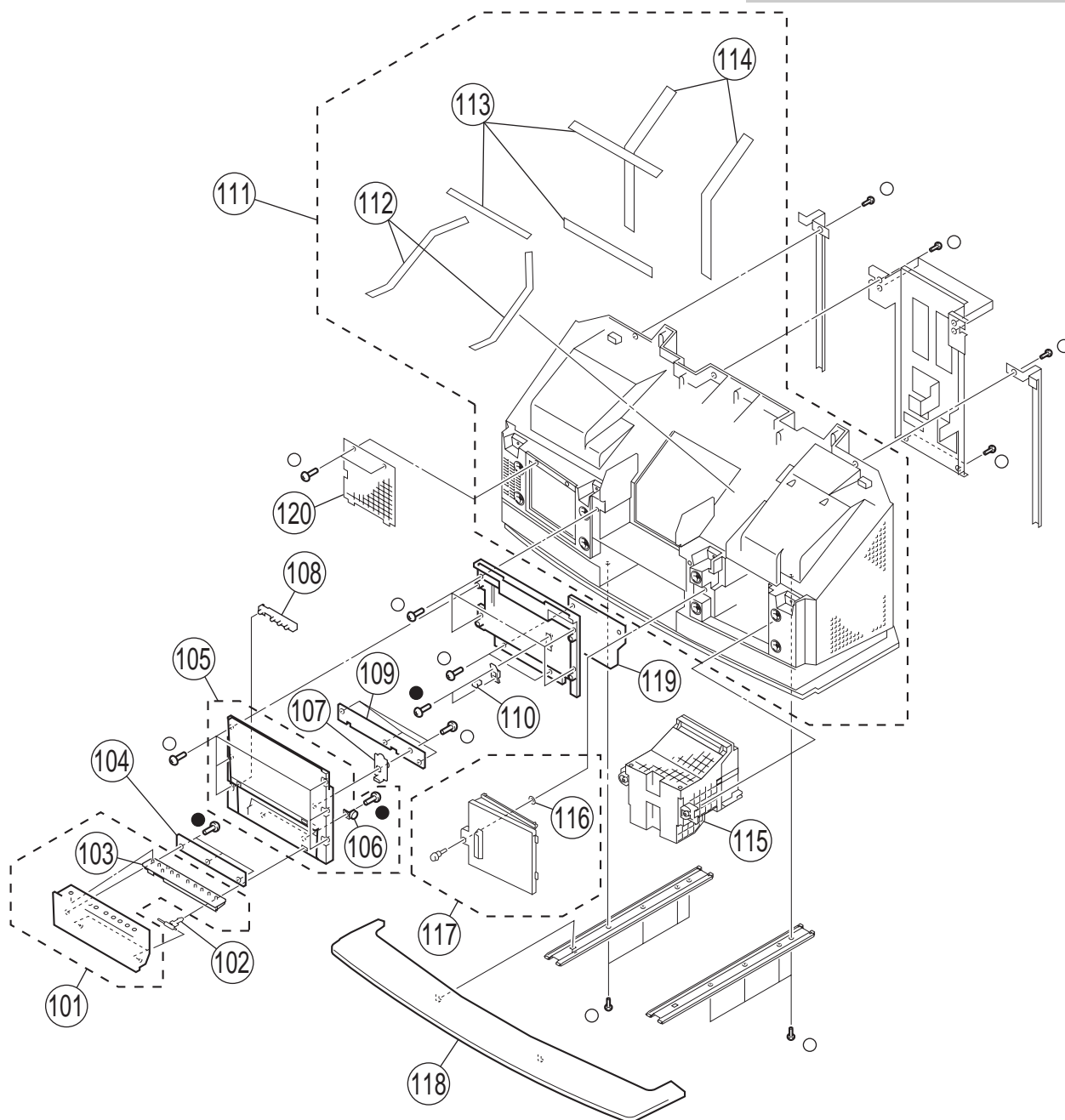
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-086-303-01	MIRROR (60)		60	* 4-086-309-01	CUSHION (HARNESS), SHIELD	
52	* 4-077-752-01	HOLDER (L), MIRROR		61	* 4-077-731-01	HOLDER (R), MIRROR	
53	* 4-087-651-01	SPACER, MIRROR		62	4-078-618-01	TAPE (A), PE	
54	* 4-086-253-01	HOLDER (60U), MIRROR		63	* 4-087-632-01	CUSHION (MS)	
55	1-544-855-11	SPEAKER (10cm)		64	* X-4040-001-1	STAY (MT) ASSY	
56	4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)		65	* X-4040-000-1	STAY (MR) ASSY	
57	1-544-856-11	SPEAKER (2cm)		66	* X-4040-002-1	STAY (MB) ASSY	
58	1-544-857-11	SPEAKER (13X7cm)		67	* 4-087-633-01	SPACER (MSH)	
59	X-4039-783-1	COVER (60) ASSY, MIRROR		68	* 4-087-634-01	TAPE (MSH), PE	

5-3. CABINET SECTION

- : 7-685-663-79 +BVTP 4X16
 ● : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark Δ are critical for safety.
 Replace only with part number specified.

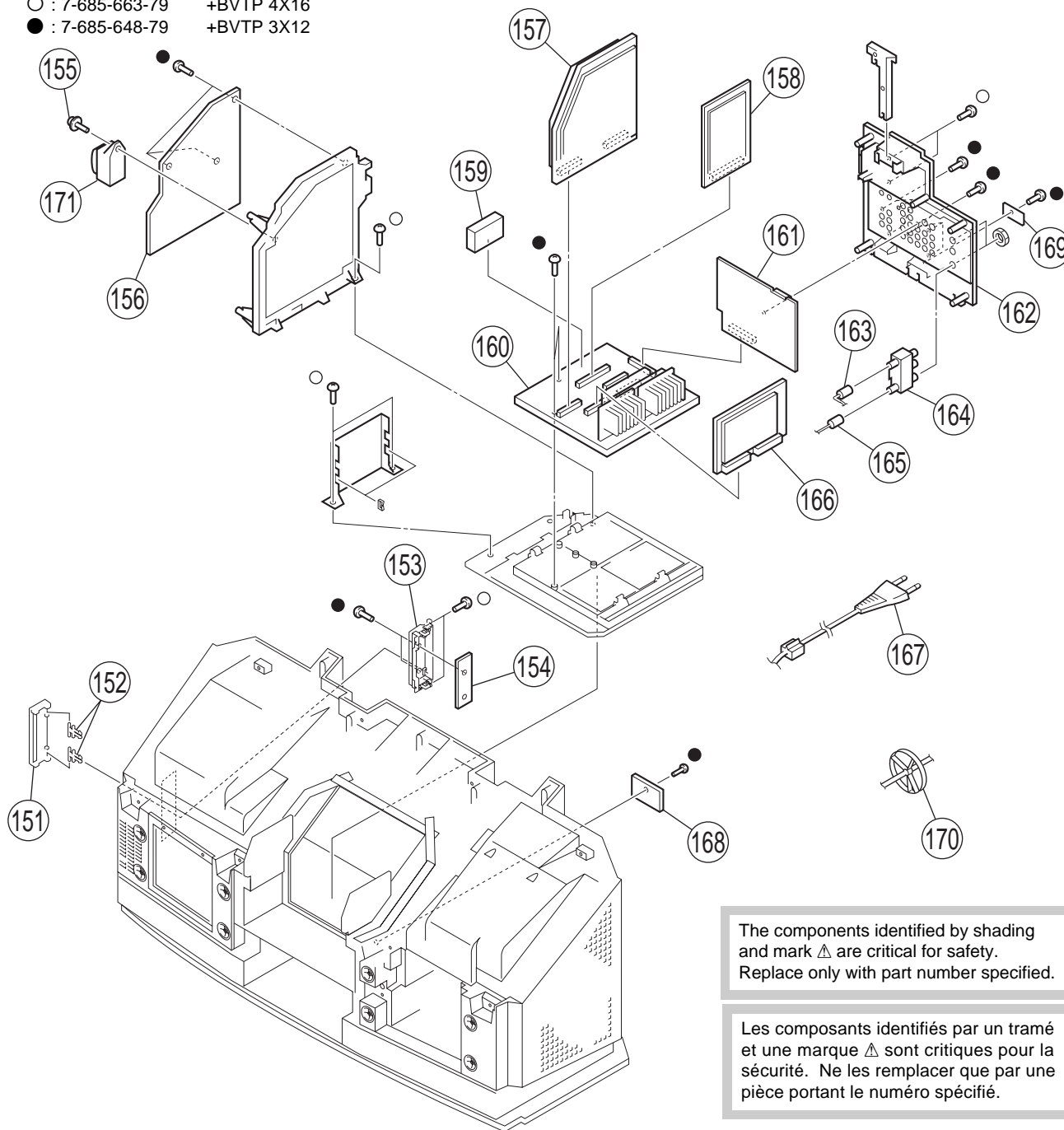
Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	X-4039-779-1	BRACKET ASSY, H2	103	111	* X-4039-949-1	CABINET ASSY	112-114
102	4-045-250-01	DAMPER		112	4-077-652-01	CUSHION (A)	
103	4-082-937-11	BUTTON, CONTROL		113	4-077-654-01	CUSHION (C)	
104	* A-1377-051-A	H2 BOARD, COMPLETE		114	4-077-653-01	CUSHION (B)	
105	X-4039-786-1	BRACKET ASSY, H3		115	Δ A-1601-753-A	LAMP BLOCK (RP) ASSY	
106	4-919-393-51	DAMPER	106	116	* 3-650-537-00	WASHER	
107	4-086-268-01	BUTTON, POWER		117	* X-4040-874-3	DOOR ASSY, LAMP	116
108	4-086-269-01	GUIDE, LED		118	4-086-252-01	PEDESTAL (60F)	
109	* A-1377-052-A	H3 BOARD, COMPLETE		119	4-086-267-01	PANEL, BOTTOM	
110	4-374-714-01	CATCH, PUSH		120	4-082-919-01	PLATE, FRONT	

5-4. MAIN SECTION

- : 7-685-663-79 +BVTP 4X16
 ● : 7-685-648-79 +BVTP 3X12



The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

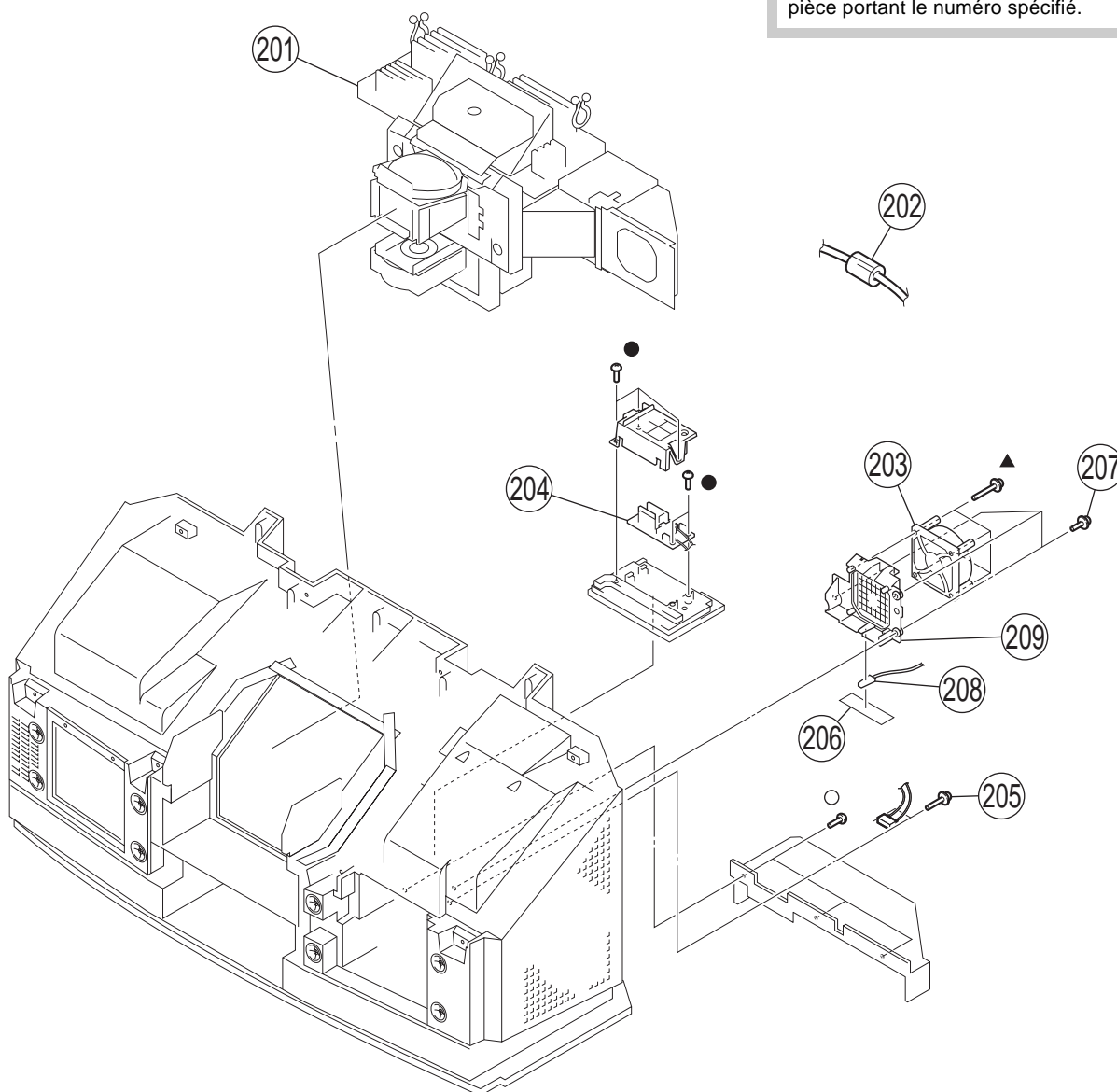
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
151	X-4039-764-1	LID ASSY, H1		162	X-4039-768-1	TERMINAL BOARD ASSY	
152	3-703-035-11	SHAFT, LID		163	* 1-555-110-11	CABLE, P-P	
153	X-4039-767-1	BRACKET ASSY, H1		164	1-771-787-12	SWITCH, RF ANTENNA	
154	* A-1377-053-A	H1 BOARD, COMPLETE		165	* 1-557-056-31	CABLE, P-P	
155	4-029-432-01	SCREW (3X12), (+) BVWHTP		166	* A-1306-613-A	M BOARD, COMPLETE	
156	* A-1316-594-A	G BOARD, COMPLETE		167	Δ 1-791-192-11	CORD, NOISE FILTER WITH POWER	
157	* A-1136-263-A	BB BOARD, COMPLETE		168	* A-1391-177-A	T BOARD, COMPLETE	
158	* A-1136-264-A	BC BOARD, COMPLETE		169	4-082-913-11	DOOR, RC	
159	* A-1136-028-A	BC4 BOARD, COMPLETE		170	4-034-856-01	HOLDER, HV CABLE	
160	* A-1299-626-A	A BOARD, COMPLETE	159	171	Δ 1-419-661-11	CHOKE COIL	
161	* A-1395-043-A	U BOARD, COMPLETE					

5-5. OPTICAL UNIT SECTION

- : 7-685-663-79 +BVTP 4X16
 ● : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
201	\triangle A-1601-922-A	OPTICS UNIT BLOCK ASSY		206	* 4-078-590-01	TAPE	
202	1-500-386-11	FILTER, CLAMP (FERRITE CORE)		207	4-314-843-02	SCREW, TAPPING, +4X12	
203	\triangle 1-698-696-21	FAN, DC		208	\triangle 1-900-253-70	CONNECTOR ASSY, SMP-B 2P	
204	\triangle 1-468-510-13	POWER BLOCK				(thermostat)	
205	4-029-432-01	SCREW (3X12), (+) BVWHTP		209	4-077-706-01	BRACKET, FAN	

SECTION 6

ELECTRICAL PARTS LIST

BC4

NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• RESISTORS
All resistors are in ohms
F : nonflammable

• CAPACITORS
PF : μ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
* A-1136-028-B BC4 BOARD, COMPLETE *****				C2056	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
				C2057	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
				C2058	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
< CAPACITOR >				C2059	1-126-947-11	ELECT 47 μ F	20% 16V
C2003	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V	C2060	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2005	1-163-131-00	CERAMIC CHIP 390pF	5% 50V	C2061	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2006	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V	C2062	1-126-947-11	ELECT 47 μ F	20% 16V
C2010	1-163-102-00	CERAMIC CHIP 24pF	5% 50V	C2063	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V
C2011	1-163-102-00	CERAMIC CHIP 24pF	5% 50V	C2064	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2015	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2065	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2016	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2066	1-126-947-11	ELECT 47 μ F	20% 16V
C2017	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2067	1-126-947-11	ELECT 47 μ F	20% 16V
C2018	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2068	1-126-947-11	ELECT 47 μ F	20% 16V
C2021	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V	C2069	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2024	1-216-295-91	SHORT 0		C2070	1-126-947-11	ELECT 47 μ F	20% 16V
C2029	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2071	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V
C2030	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2072	1-163-237-11	CERAMIC CHIP 27pF	5% 50V
C2031	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2074	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V
C2032	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2075	1-163-038-91	CERAMIC CHIP 0.1 μ F	25V
C2033	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2078	1-126-947-11	ELECT 47 μ F	20% 16V
C2034	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2079	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2035	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2080	1-163-031-91	CERAMIC CHIP 0.01 μ F	50V
C2036	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2095	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
C2037	1-126-947-11	ELECT 47 μ F	20% 16V	C2096	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
C2038	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	C2097	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
C2039	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	< CONNECTOR >			
C2040	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	CN2001*1-774-184-11 PIN, CONNECTOR (PC BOARD) 15P			
C2041	1-126-924-11	ELECT 330 μ F	20% 6.3V	< FERRITE BEAD >			
C2042	1-165-319-11	CERAMIC CHIP 0.1 μ F	50V	FB2002	1-414-234-22	FERRITE 0 μ H	
C2044	1-126-947-11	ELECT 47 μ F	20% 16V	FB2008	1-414-234-22	FERRITE 0 μ H	
C2045	1-163-106-00	CERAMIC CHIP 36pF	5% 50V	FB2009	1-414-234-22	FERRITE 0 μ H	
C2046	1-126-964-11	ELECT 10 μ F	20% 50V	FB2010	1-414-234-22	FERRITE 0 μ H	
C2047	1-164-505-11	CERAMIC CHIP 2.2 μ F	16V	FB2011	1-414-234-22	FERRITE 0 μ H	
C2048	1-126-964-11	ELECT 10 μ F	20% 50V	FB2012	1-414-234-22	FERRITE 0 μ H	
C2049	1-126-960-11	ELECT 1 μ F	20% 50V	FB2014	1-414-234-22	FERRITE 0 μ H	
C2050	1-163-231-11	CERAMIC CHIP 15pF	5% 50V	FB2015	1-414-234-22	FERRITE 0 μ H	
C2051	1-126-964-11	ELECT 10 μ F	20% 50V	FB2016	1-414-234-22	FERRITE 0 μ H	
C2052	1-163-133-00	CERAMIC CHIP 470pF	5% 50V	FB2017	1-414-234-22	FERRITE 0 μ H	
C2053	1-109-889-11	ELECT 1 μ F	20% 50V				
C2054	1-126-947-11	ELECT 47 μ F	20% 16V				
C2055	1-126-947-11	ELECT 47 μ F	20% 16V				

BC4

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< FILTER >				R2031	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
FL2001	1-239-848-11	FILTER, LOW PASS		R2032	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
FL2002	1-239-848-11	FILTER, LOW PASS		R2033	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
FL2003	1-239-848-11	FILTER, LOW PASS		R2034	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
FL2004	1-239-848-11	FILTER, LOW PASS		R2035	1-216-043-91	RES-CHIP 560	5% 1/10W
FL2005	1-233-736-21	FILTER, EMI		R2036	1-216-649-11	METAL CHIP 820	0.5% 1/10W
FL2006	1-233-736-21	FILTER, EMI		R2037	1-216-044-00	RES-CHIP 620	5% 1/10W
FL2007	1-233-736-21	FILTER, EMI		R2039	1-216-047-91	RES-CHIP 820	5% 1/10W
< IC >				R2040	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
IC2003	8-759-568-27	IC MSM514265C-60JSDR1		R2041	1-216-047-91	RES-CHIP 820	5% 1/10W
IC2004	8-759-594-44	IC μ PD64082GF-3BA		R2042	1-216-075-00	RES-CHIP 12K	5% 1/10W
IC2005	8-759-431-14	IC PQ3TZ53U		R2043	1-216-085-91	RES-CHIP 33K	5% 1/10W
< COIL >				R2044	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
L2001	1-410-200-31	INDUCTOR 4.7 μ H		R2046	1-216-075-00	RES-CHIP 12K	5% 1/10W
L2004	1-412-058-11	INDUCTOR 10 μ H		R2047	1-216-085-91	RES-CHIP 33K	5% 1/10W
L2005	1-412-058-11	INDUCTOR 10 μ H		R2048	1-216-049-11	RES-CHIP 1K	5% 1/10W
L2006	1-412-058-11	INDUCTOR 10 μ H		R2049	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
L2007	1-412-058-11	INDUCTOR 10 μ H		R2050	1-216-017-91	RES-CHIP 47	5% 1/10W
L2008	1-412-058-11	INDUCTOR 10 μ H		R2051	1-216-049-11	RES-CHIP 1K	5% 1/10W
< TRANSISTOR >				R2052	1-216-049-11	RES-CHIP 1K	5% 1/10W
Q2002	8-729-216-22	TRANSISTOR 2SA1162-G		R2053	1-216-041-00	RES-CHIP 470	5% 1/10W
Q2003	8-729-216-22	TRANSISTOR 2SA1162-G		R2054	1-216-041-00	RES-CHIP 470	5% 1/10W
Q2004	8-729-216-22	TRANSISTOR 2SA1162-G		R2055	1-216-017-91	RES-CHIP 47	5% 1/10W
Q2005	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2056	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
Q2006	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2057	1-216-049-11	RES-CHIP 1K	5% 1/10W
Q2007	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2058	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
Q2008	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2059	1-216-049-11	RES-CHIP 1K	5% 1/10W
Q2009	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2060	1-216-025-11	RES-CHIP 100	5% 1/10W
Q2010	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2061	1-216-043-91	RES-CHIP 560	5% 1/10W
Q2011	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2062	1-216-105-91	RES-CHIP 220K	5% 1/10W
Q2012	8-729-216-22	TRANSISTOR 2SA1162-G		R2063	1-216-089-91	RES-CHIP 47K	5% 1/10W
Q2013	8-729-216-22	TRANSISTOR 2SA1162-G		R2064	1-216-049-11	RES-CHIP 1K	5% 1/10W
Q2014	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2066	1-216-033-00	RES-CHIP 220	5% 1/10W
Q2015	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2067	1-216-043-91	RES-CHIP 560	5% 1/10W
Q2016	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2069	1-216-645-11	METAL CHIP 560	0.5% 1/10W
Q2018	8-729-216-22	TRANSISTOR 2SA1162-G		R2070	1-216-641-11	METAL CHIP 390	0.5% 1/10W
Q2019	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R2071	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
< RESISTOR >				R2072	1-216-043-91	RES-CHIP 560	5% 1/10W
R2001	1-216-097-11	RES-CHIP 100K	5% 1/10W	R2073	1-216-049-11	RES-CHIP 1K	5% 1/10W
R2011	1-216-041-00	RES-CHIP 470	5% 1/10W	R2074	1-216-025-11	RES-CHIP 100	5% 1/10W
R2015	1-216-041-00	RES-CHIP 470	5% 1/10W	R2075	1-216-295-91	SHORT 0	
R2019	1-216-295-91	SHORT 0		R2076	1-216-025-11	RES-CHIP 100	5% 1/10W
R2021	1-216-025-11	RES-CHIP 100	5% 1/10W	R2077	1-216-025-11	RES-CHIP 100	5% 1/10W
R2027	1-216-049-11	RES-CHIP 1K	5% 1/10W	R2078	1-216-295-91	SHORT 0	
R2028	1-216-049-11	RES-CHIP 1K	5% 1/10W	R2092	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
R2029	1-216-043-91	RES-CHIP 560	5% 1/10W	R2093	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
R2030	1-216-043-91	RES-CHIP 560	5% 1/10W	R2104	1-216-295-91	SHORT 0	
				R2105	1-216-295-91	SHORT 0	
				R2106	1-216-295-91	SHORT 0	
				R2107	1-216-295-91	SHORT 0	
				R2108	1-216-049-11	RES-CHIP 1K	5% 1/10W
				R2110	1-216-295-91	SHORT 0	
				R2112	1-216-295-91	SHORT 0	
				R2113	1-216-017-91	RES-CHIP 47	5% 1/10W
				R2115	1-216-049-11	RES-CHIP 1K	5% 1/10W
				R2116	1-216-295-91	SHORT 0	

BC4	BB
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2117	1-216-295-91	SHORT	0	C305	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
R2118	1-216-296-11	SHORT	0	C306	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
R2119	1-216-296-11	SHORT	0	C307	1-126-204-11	ELECT CHIP 47μF	20% 16V
R2200	1-216-296-11	SHORT	0	C308	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
< VARIABLE RESISTOR >				C310	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
RV2001	1-223-271-21	RES, ADJ, CERMET	220	C312	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
< CRYSTAL >				C313	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
X2001	1-767-606-11	VIBRATOR, CRYSTAL (20MHz)		C315	1-126-204-11	ELECT CHIP 47μF	20% 16V
*****				C316	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
* A-1136-263-A BB BOARD, COMPLETE				C317	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
*****				C318	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
3-701-809-21	SCREW, TERMINAL (M3X6)			C319	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
< CAPACITOR >				C320	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C001	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C321	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C002	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C322	1-126-204-11	ELECT CHIP 47μF	20% 16V
C003	1-126-204-11	ELECT CHIP 47μF	20% 16V	C323	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C004	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C324	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C005	1-162-925-11	CERAMIC CHIP 68pF	5% 50V	C325	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C006	1-162-925-11	CERAMIC CHIP 68pF	5% 50V	C326	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C011	1-162-927-11	CERAMIC CHIP 100pF	5% 50V	C327	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C012	1-162-927-11	CERAMIC CHIP 100pF	5% 50V	C328	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C014	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C329	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C016	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C330	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C203	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C331	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C204	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C332	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C205	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C333	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C206	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C334	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C207	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C335	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C208	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C336	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C209	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C337	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C210	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C338	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C211	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C339	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C212	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C340	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C213	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C341	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C214	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C342	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C215	1-126-204-11	ELECT CHIP 47μF	20% 16V	C343	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C216	1-124-779-00	ELECT CHIP 10μF	20% 16V	C344	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C217	1-124-779-00	ELECT CHIP 10μF	20% 16V	C345	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C218	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C346	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C219	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C347	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C220	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C348	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C247	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C349	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C248	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C350	1-126-204-11	ELECT CHIP 47μF	20% 16V
C249	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C351	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C301	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C352	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C302	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C353	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C303	1-126-204-11	ELECT CHIP 47μF	20% 16V	C354	1-126-204-11	ELECT CHIP 47μF	20% 16V
C304	1-126-204-11	ELECT CHIP 47μF	20% 16V	C355	1-126-204-11	ELECT CHIP 47μF	20% 16V
				C356	1-126-603-11	ELECT CHIP 4.7μF	20% 35V
				C357	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C358	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C359	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
				C360	1-126-204-11	ELECT CHIP 47μF	20% 16V
				C361	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C362	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C363	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C364	1-126-204-11	ELECT CHIP 47μF	20% 16V	C559	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C365	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C563	1-162-967-11	CERAMIC CHIP 0.0033μF	10% 50V
C366	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C570	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C367	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V				
C368	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C571	1-124-779-00	ELECT CHIP 10μF	20% 16V
C369	1-126-204-11	ELECT CHIP 47μF	20% 16V	C572	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C370	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C574	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C371	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C575	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C372	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C578	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C373	1-126-204-11	ELECT CHIP 47μF	20% 16V	C579	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C376	1-104-601-11	ELECT CHIP 10μF	20% 10V	C580	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C378	1-104-601-11	ELECT CHIP 10μF	20% 10V	C581	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C379	1-104-601-11	ELECT CHIP 10μF	20% 10V	C582	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C380	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C583	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C381	1-124-779-00	ELECT CHIP 10μF	20% 16V	C584	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C382	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C585	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C383	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C588	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C384	1-126-204-11	ELECT CHIP 47μF	20% 16V	C589	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C385	1-128-394-11	ELECT CHIP 220μF	20% 10V	C590	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C394	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C591	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C402	1-128-396-11	ELECT CHIP 470μF	20% 10V	C592	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C428	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C593	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C429	1-124-779-00	ELECT CHIP 10μF	20% 16V	C594	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C430	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C595	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C431	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C596	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C433	1-126-204-11	ELECT CHIP 47μF	20% 16V	C597	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C434	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C598	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C435	1-124-779-00	ELECT CHIP 10μF	20% 16V	C599	1-124-779-00	ELECT CHIP 10μF	20% 16V
C436	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C600	1-124-779-00	ELECT CHIP 10μF	20% 16V
C437	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C601	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C438	1-126-204-11	ELECT CHIP 47μF	20% 16V	C602	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C439	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C603	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C440	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C604	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C442	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C605	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C443	1-126-204-11	ELECT CHIP 47μF	20% 16V	C606	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C444	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C607	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C445	1-126-206-11	ELECT CHIP 100μF	20% 6.3V	C608	1-162-916-11	CERAMIC CHIP 12pF	5% 50V
C446	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C609	1-162-916-11	CERAMIC CHIP 12pF	5% 50V
C447	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C611	1-162-968-11	CERAMIC CHIP 0.0047μF	10% 50V
C449	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C614	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C450	1-124-779-00	ELECT CHIP 10μF	20% 16V	C615	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C451	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C617	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C452	1-124-779-00	ELECT CHIP 10μF	20% 16V	C618	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C453	1-126-206-11	ELECT CHIP 100μF	20% 6.3V	C619	1-124-779-00	ELECT CHIP 10μF	20% 16V
C460	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C620	1-126-204-11	ELECT CHIP 47μF	20% 16V
C491	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C621	1-126-204-11	ELECT CHIP 47μF	20% 16V
C492	1-126-204-11	ELECT CHIP 47μF	20% 16V	C622	1-124-779-00	ELECT CHIP 10μF	20% 16V
C494	1-126-204-11	ELECT CHIP 47μF	20% 16V	C623	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C495	1-126-204-11	ELECT CHIP 47μF	20% 16V	C624	1-124-779-00	ELECT CHIP 10μF	20% 16V
C496	1-124-779-00	ELECT CHIP 10μF	20% 16V	C625	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C497	1-124-779-00	ELECT CHIP 10μF	20% 16V	C626	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C498	1-124-779-00	ELECT CHIP 10μF	20% 16V	C627	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C499	1-124-779-00	ELECT CHIP 10μF	20% 16V	C628	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C500	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C629	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C509	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C630	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C523	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	C631	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C632	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C633	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C752	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C638	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C753	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C639	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C754	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C640	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C755	1-162-968-11	CERAMIC CHIP 0.0047μF	10% 50V
C643	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	C756	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C644	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	C757	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C645	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	C758	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C655	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	C759	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C656	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	C760	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C662	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C761	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C665	1-126-204-11	ELECT CHIP 47μF	20% 16V	C762	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C701	1-126-204-11	ELECT CHIP 47μF	20% 16V	C763	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C702	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C764	1-162-959-11	CERAMIC CHIP 330pF	5% 50V
C703	1-126-204-11	ELECT CHIP 47μF	20% 16V	C765	1-162-968-11	CERAMIC CHIP 0.0047μF	10% 50V
C704	1-115-416-11	CERAMIC CHIP 0.001μF	5% 25V	C766	1-115-416-11	CERAMIC CHIP 0.001μF	5% 25V
C705	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C768	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C706	1-162-924-11	CERAMIC CHIP 56pF	5% 50V	C769	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C707	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C770	1-126-204-11	ELECT CHIP 47μF	20% 16V
C708	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C771	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C709	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C772	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C710	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C773	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C711	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C774	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C712	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C775	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C713	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C776	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C714	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C778	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C717	1-162-923-11	CERAMIC CHIP 47pF	5% 50V	C779	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C718	1-162-923-11	CERAMIC CHIP 47pF	5% 50V	C780	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C719	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C781	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C720	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C782	1-126-204-11	ELECT CHIP 47μF	20% 16V
C722	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C783	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C725	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C784	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C726	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C785	1-124-779-00	ELECT CHIP 10μF	20% 16V
C727	1-162-915-11	CERAMIC CHIP 10pF	0.5pF 50V	C786	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C728	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C787	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C729	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C791	1-125-837-91	CERAMIC CHIP 1μF	10% 6.3V
C730	1-162-917-11	CERAMIC CHIP 15pF	5% 50V	C793	1-127-515-11	ELECT 47μF	20% 10V
C731	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C794	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C732	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C795	1-124-779-00	ELECT CHIP 10μF	20% 16V
C733	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C796	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C734	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C797	1-126-204-11	ELECT CHIP 47μF	20% 16V
C735	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C799	1-125-837-91	CERAMIC CHIP 1μF	10% 6.3V
C736	1-124-779-00	ELECT CHIP 10μF	20% 16V	C801	1-127-515-11	ELECT 47μF	20% 10V
C737	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C806	1-127-515-11	ELECT 47μF	20% 10V
C739	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C807	1-127-515-11	ELECT 47μF	20% 10V
C740	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C808	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C741	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C809	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C742	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C810	1-126-935-11	ELECT 470μF	20% 16V
C743	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C812	1-126-935-11	ELECT 470μF	20% 16V
C744	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C814	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C745	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C815	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C746	1-126-204-11	ELECT CHIP 47μF	20% 16V	C830	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C747	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C831	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C748	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C832	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C749	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C833	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C750	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	C834	1-127-573-11	CERAMIC CHIP 1μF	10% 16V
C751	1-124-779-00	ELECT CHIP 10μF	20% 16V	C835	1-127-515-11	ELECT 47μF	20% 10V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C836	1-127-573-11	CERAMIC CHIP 1μF	10% 16V	D707	8-719-404-50	DIODE MA111-TX	
C837	1-127-515-11	ELECT 47μF	20% 10V				
C838	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V		< FILTER >		
C839	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V				
C840	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL201	1-234-113-21	FILTER, LOW PASS	
				FL202	1-234-112-21	FILTER, LOW PASS	
C844	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL203	1-234-112-21	FILTER, LOW PASS	
C845	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL207	1-234-558-21	FILTER, LOW PASS	
C846	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL208	1-234-557-21	FILTER, LOW PASS	
C847	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V				
C848	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL209	1-234-557-21	FILTER, LOW PASS	
				FL701	1-233-736-21	FILTER, EMI	
C849	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL702	1-233-736-21	FILTER, EMI	
C900	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	FL704	1-233-736-21	FILTER, EMI	
C901	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	FL705	1-233-736-21	FILTER, EMI	
C902	1-124-779-00	ELECT CHIP 10μF	20% 16V				
C7701	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL706	1-233-736-21	FILTER, EMI	
				FL707	1-233-736-21	FILTER, EMI	
C7702	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL711	1-234-113-21	FILTER, LOW PASS	
C7703	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL712	1-234-113-21	FILTER, LOW PASS	
C7704	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL713	1-234-113-21	FILTER, LOW PASS	
C7705	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V				
C7706	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	FL7700	1-234-664-21	FILTER, LOW PASS	
				FL7701	1-234-661-21	FILTER, LOW PASS	
C7707	1-162-922-11	CERAMIC CHIP 39pF	5% 50V	FL7702	1-234-661-21	FILTER, LOW PASS	
C7708	1-162-925-11	CERAMIC CHIP 68pF	5% 50V				
C7710	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V		< IC >		
C7711	1-126-204-11	ELECT CHIP 47μF	20% 16V	IC001	6-700-149-01	IC M24C04-MN6T(A)	
C7712	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC002	6-800-557-01	IC MB94P918PF-G-142	
				IC003	8-759-349-11	IC PST9145NL	
C7713	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC004	8-759-485-79	IC TC7SET08FU(TE85L)	
C7714	1-124-779-00	ELECT CHIP 10μF	20% 16V	IC005	8-759-485-79	IC TC7SET08FU(TE85L)	
C7715	1-124-779-00	ELECT CHIP 10μF	20% 16V				
C7716	1-124-779-00	ELECT CHIP 10μF	20% 16V	IC301	8-759-669-78	IC TLC2933IPWR-12	
C7717	1-124-779-00	ELECT CHIP 10μF	20% 16V	IC302	8-749-015-18	IC PQ07VZ012ZP	
				IC303	8-759-663-74	IC HY57V161610DTC-7TR	
C7718	1-126-204-11	ELECT CHIP 47μF	20% 16V	IC304	8-752-409-78	IC CXD2095AQ	
C7719	1-126-204-11	ELECT CHIP 47μF	20% 16V	IC305	8-759-447-90	IC TLC5733AIPM	
C7721	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V				
C7722	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC306	8-759-669-75	IC TLC2932IPWR	
C7723	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC307	8-759-581-11	IC NJM2125F(TE2)	
				IC401	8-759-581-11	IC NJM2125F(TE2)	
< CONNECTOR >				IC402	8-759-485-79	IC TC7SET08FU(TE85L)	
CN702*	1-764-643-21	PIN, CONNECTOR (SMD) 11P		IC403	8-759-669-75	IC TLC2932IPWR	
CN703	1-815-871-11	CONNECTOR, BOARD TO BOARD 40P					
CN704	1-815-871-11	CONNECTOR, BOARD TO BOARD 40P		IC404	8-759-485-79	IC TC7SET08FU(TE85L)	
				IC405	8-759-485-79	IC TC7SET08FU(TE85L)	
< DIODE >				IC406	8-759-485-79	IC TC7SET08FU(TE85L)	
				IC407	8-759-196-96	IC TC7SH08FU-TE85R	
D001	8-719-800-76	DIODE 1SS226		IC451	8-759-548-56	IC M52055FP	
D002	8-719-800-76	DIODE 1SS226					
D003	8-719-978-33	DIODE DTZ-TT11-6.8B		IC506	8-759-460-29	IC PST9120NL	
D301	8-719-083-58	DIODE UDZSTE-173.9B		IC508	8-749-015-18	IC PQ07VZ012ZP	
D302	8-719-083-57	DIODE UDZSTE-173.6B		IC509	8-759-672-57	IC CXD9509AQ	
				IC510	8-752-369-84	IC CXD2309Q-T6	
D501	8-719-914-43	DIODE DAN202K		IC511	8-749-015-18	IC PQ07VZ012ZP	
D502	8-719-914-44	DIODE DAP202K					
D701	8-719-404-50	DIODE MA111-TX		IC512	8-759-677-37	IC MT48LC2M32B2TG-7	
D702	8-719-404-50	DIODE MA111-TX		IC514	8-759-082-57	IC TC7W04FU	
D703	8-719-404-50	DIODE MA111-TX		IC701	8-752-086-13	IC CXA2101AQ	
				IC702	8-749-015-18	IC PQ07VZ012ZP	
D704	8-719-404-50	DIODE MA111-TX		IC703	8-759-009-51	IC MC14538BF	
D705	8-719-404-50	DIODE MA111-TX					
				IC704	8-759-547-54	IC TC7SET00FU(TE85R)	



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q505	8-729-216-22	TRANSISTOR 2SA1162-G		R013	1-216-845-11	RES-CHIP 100K	5% 1/16W
Q506	8-729-216-22	TRANSISTOR 2SA1162-G		R014	1-216-864-11	SHORT 0	
Q507	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R015	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q509	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		R017	1-216-864-11	SHORT 0	
Q517	8-729-216-22	TRANSISTOR 2SA1162-G		R018	1-216-864-11	SHORT 0	
Q518	8-729-216-22	TRANSISTOR 2SA1162-G		R019	1-216-809-11	RES-CHIP 100	5% 1/16W
Q521	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R020	1-216-809-11	RES-CHIP 100	5% 1/16W
Q522	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R021	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
Q523	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R022	1-216-823-11	RES-CHIP 1.5K	5% 1/16W
Q713	8-729-122-63	TRANSISTOR 2SA1226		R023	1-216-818-11	RES-CHIP 560	5% 1/16W
Q714	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R024	1-216-809-11	RES-CHIP 100	5% 1/16W
Q715	8-729-216-22	TRANSISTOR 2SA1162-G		R025	1-216-864-11	SHORT 0	
Q716	8-729-216-22	TRANSISTOR 2SA1162-G		R027	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q717	8-729-216-22	TRANSISTOR 2SA1162-G		R028	1-216-817-11	RES-CHIP 470	5% 1/16W
Q718	8-729-216-22	TRANSISTOR 2SA1162-G		R029	1-216-809-11	RES-CHIP 100	5% 1/16W
Q719	8-729-216-22	TRANSISTOR 2SA1162-G		R030	1-216-809-11	RES-CHIP 100	5% 1/16W
Q721	8-729-122-63	TRANSISTOR 2SA1226		R032	1-216-864-11	SHORT 0	
Q722	8-729-216-22	TRANSISTOR 2SA1162-G		R045	1-216-825-11	RES-CHIP 2.2K	5% 1/16W
Q723	8-729-122-63	TRANSISTOR 2SA1226		R046	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q724	8-729-216-22	TRANSISTOR 2SA1162-G		R047	1-216-864-11	SHORT 0	
Q725	8-729-122-63	TRANSISTOR 2SA1226		R049	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q727	8-729-216-22	TRANSISTOR 2SA1162-G		R051	1-216-809-11	RES-CHIP 100	5% 1/16W
Q728	8-729-122-63	TRANSISTOR 2SA1226		R052	1-216-809-11	RES-CHIP 100	5% 1/16W
Q730	8-729-102-07	TRANSISTOR 2SC2223-F13		R053	1-216-809-11	RES-CHIP 100	5% 1/16W
Q731	8-729-102-07	TRANSISTOR 2SC2223-F13		R054	1-216-833-11	RES-CHIP 10K	5% 1/16W
Q732	8-729-102-07	TRANSISTOR 2SC2223-F13		R060	1-216-864-11	SHORT 0	
Q733	8-729-122-63	TRANSISTOR 2SA1226		R061	1-216-864-11	SHORT 0	
Q734	8-729-122-63	TRANSISTOR 2SA1226		R062	1-216-864-11	SHORT 0	
Q735	8-729-122-63	TRANSISTOR 2SA1226		R063	1-216-864-11	SHORT 0	
Q7700	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R064	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
Q7701	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R200	1-216-809-11	RES-CHIP 100	5% 1/16W
Q7702	8-729-102-07	TRANSISTOR 2SC2223-F13		R201	1-216-864-11	SHORT 0	
Q7703	8-729-122-63	TRANSISTOR 2SA1226		R202	1-216-864-11	SHORT 0	
Q7704	8-729-216-22	TRANSISTOR 2SA1162-G		R203	1-216-864-11	SHORT 0	
Q7705	8-729-216-22	TRANSISTOR 2SA1162-G		R204	1-216-864-11	SHORT 0	
Q7706	8-729-102-07	TRANSISTOR 2SC2223-F13		R205	1-216-864-11	SHORT 0	
Q7707	8-729-900-53	TRANSISTOR DTC114EK		R206	1-216-864-11	SHORT 0	
Q7708	8-729-900-53	TRANSISTOR DTC114EK		R207	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
Q7709	8-729-122-63	TRANSISTOR 2SA1226		R208	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
Q7710	8-729-122-63	TRANSISTOR 2SA1226		R209	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
Q7711	8-729-216-22	TRANSISTOR 2SA1162-G		R210	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
Q7712	8-729-216-22	TRANSISTOR 2SA1162-G		R211	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
				R212	1-218-676-11	METAL CHIP 220	0.5% 1/16W
				R213	1-218-676-11	METAL CHIP 220	0.5% 1/16W
< RESISTOR >				R214	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R001	1-216-809-11	RES-CHIP 100	5% 1/16W	R215	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R002	1-216-805-11	RES-CHIP 47	5% 1/16W	R216	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R003	1-216-805-11	RES-CHIP 47	5% 1/16W	R217	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R005	1-216-809-11	RES-CHIP 100	5% 1/16W	R218	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R006	1-216-809-11	RES-CHIP 100	5% 1/16W				
R007	1-216-809-11	RES-CHIP 100	5% 1/16W	R222	1-216-864-11	SHORT 0	
R008	1-216-821-11	RES-CHIP 1K	5% 1/16W	R223	1-216-864-11	SHORT 0	
R009	1-216-809-11	RES-CHIP 100	5% 1/16W	R224	1-216-864-11	SHORT 0	
R010	1-216-825-11	RES-CHIP 2.2K	5% 1/16W	R225	1-216-864-11	SHORT 0	
R011	1-216-825-11	RES-CHIP 2.2K	5% 1/16W	R226	1-216-864-11	SHORT 0	
R012	1-216-845-11	RES-CHIP 100K	5% 1/16W	R227	1-216-864-11	SHORT 0	
				R228	1-216-864-11	SHORT 0	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R229	1-216-864-11	SHORT	0	R285	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R230	1-216-864-11	SHORT	0	R286	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R231	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R287	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R232	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R288	1-218-685-11	METAL CHIP	510 0.5% 1/16W
R233	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R289	1-218-688-11	METAL CHIP	680 0.5% 1/16W
R234	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R290	1-218-682-11	METAL CHIP	390 0.5% 1/16W
R235	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R291	1-218-688-11	METAL CHIP	680 0.5% 1/16W
R236	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R292	1-218-682-11	METAL CHIP	390 0.5% 1/16W
R237	1-216-821-11	RES-CHIP	1K 5% 1/16W	R293	1-218-688-11	METAL CHIP	680 0.5% 1/16W
R238	1-216-821-11	RES-CHIP	1K 5% 1/16W	R294	1-216-819-11	RES-CHIP	680 5% 1/16W
R239	1-216-821-11	RES-CHIP	1K 5% 1/16W	R295	1-216-820-11	RES-CHIP	820 5% 1/16W
R240	1-216-821-11	RES-CHIP	1K 5% 1/16W	R296	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R241	1-216-821-11	RES-CHIP	1K 5% 1/16W	R297	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R242	1-216-821-11	RES-CHIP	1K 5% 1/16W	R298	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R243	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R299	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R244	1-216-824-11	RES-CHIP	1.8K 5% 1/16W	R300	1-216-800-11	RES-CHIP	18 5% 1/16W
R245	1-216-824-11	RES-CHIP	1.8K 5% 1/16W	R301	1-216-853-11	RES-CHIP	470K 5% 1/16W
R246	1-216-809-11	RES-CHIP	100 5% 1/16W	R302	1-216-837-11	RES-CHIP	22K 5% 1/16W
R247	1-216-809-11	RES-CHIP	100 5% 1/16W	R303	1-216-809-11	RES-CHIP	100 5% 1/16W
R248	1-216-809-11	RES-CHIP	100 5% 1/16W	R304	1-216-809-11	RES-CHIP	100 5% 1/16W
R249	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W	R305	1-216-813-11	RES-CHIP	220 5% 1/16W
R250	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W	R306	1-216-821-11	RES-CHIP	1K 5% 1/16W
R251	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W	R307	1-216-813-11	RES-CHIP	220 5% 1/16W
R252	1-218-686-11	METAL CHIP	560 0.5% 1/16W	R308	1-216-815-11	RES-CHIP	330 5% 1/16W
R253	1-218-686-11	METAL CHIP	560 0.5% 1/16W	R309	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R254	1-218-686-11	METAL CHIP	560 0.5% 1/16W	R310	1-218-705-11	METAL CHIP	3.6K 0.5% 1/16W
R255	1-216-819-11	RES-CHIP	680 5% 1/16W	R311	1-218-690-11	METAL CHIP	820 0.5% 1/16W
R256	1-216-819-11	RES-CHIP	680 5% 1/16W	R312	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R257	1-216-819-11	RES-CHIP	680 5% 1/16W	R313	1-216-853-11	RES-CHIP	470K 5% 1/16W
R258	1-216-809-11	RES-CHIP	100 5% 1/16W	R314	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R259	1-216-809-11	RES-CHIP	100 5% 1/16W	R315	1-216-833-11	RES-CHIP	10K 5% 1/16W
R260	1-216-809-11	RES-CHIP	100 5% 1/16W	R318	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R261	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R319	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R262	1-216-824-11	RES-CHIP	1.8K 5% 1/16W	R320	1-216-864-11	SHORT	0
R263	1-216-824-11	RES-CHIP	1.8K 5% 1/16W	R322	1-216-864-11	SHORT	0
R264	1-216-819-11	RES-CHIP	680 5% 1/16W	R323	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R265	1-216-819-11	RES-CHIP	680 5% 1/16W	R325	1-216-864-11	SHORT	0
R266	1-216-819-11	RES-CHIP	680 5% 1/16W	R327	1-216-864-11	SHORT	0
R267	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R328	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R268	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R329	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R269	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R330	1-216-821-11	RES-CHIP	1K 5% 1/16W
R270	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R339	1-216-864-11	SHORT	0
R271	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R340	1-216-864-11	SHORT	0
R272	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R341	1-216-864-11	SHORT	0
R273	1-216-821-11	RES-CHIP	1K 5% 1/16W	R342	1-216-864-11	SHORT	0
R274	1-216-821-11	RES-CHIP	1K 5% 1/16W	R343	1-216-801-11	RES-CHIP	22 5% 1/16W
R275	1-216-821-11	RES-CHIP	1K 5% 1/16W	R344	1-216-819-11	RES-CHIP	680 5% 1/16W
R276	1-216-821-11	RES-CHIP	1K 5% 1/16W	R345	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R277	1-216-821-11	RES-CHIP	1K 5% 1/16W	R346	1-216-814-11	RES-CHIP	270 5% 1/16W
R278	1-216-821-11	RES-CHIP	1K 5% 1/16W	R347	1-218-704-11	METAL CHIP	3.3K 0.5% 1/16W
R279	1-216-828-11	RES-CHIP	3.9K 5% 1/16W	R348	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R280	1-216-828-11	RES-CHIP	3.9K 5% 1/16W	R350	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R281	1-216-828-11	RES-CHIP	3.9K 5% 1/16W	R351	1-216-805-11	RES-CHIP	47 5% 1/16W
R282	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R352	1-216-864-11	SHORT	0
R283	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R353	1-216-864-11	SHORT	0
R284	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R354	1-216-825-11	RES-CHIP	2.2K 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R355	1-216-809-11	RES-CHIP	100 5% 1/16W	R452	1-216-864-11	SHORT	0
R358	1-216-809-11	RES-CHIP	100 5% 1/16W	R453	1-216-864-11	SHORT	0
R360	1-216-809-11	RES-CHIP	100 5% 1/16W	R454	1-216-864-11	SHORT	0
R361	1-216-820-11	RES-CHIP	820 5% 1/16W	R455	1-216-864-11	SHORT	0
R363	1-216-809-11	RES-CHIP	100 5% 1/16W	R456	1-162-927-11	CERAMIC CHIP	100pF 5% 50V
R364	1-216-819-11	RES-CHIP	680 5% 1/16W	R457	1-216-864-11	SHORT	0
R365	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R458	1-216-805-11	RES-CHIP	47 5% 1/16W
R366	1-216-821-11	RES-CHIP	1K 5% 1/16W	R459	1-216-805-11	RES-CHIP	47 5% 1/16W
R368	1-216-855-11	RES-CHIP	680K 5% 1/16W	R460	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R369	1-216-864-11	SHORT	0	R461	1-218-684-11	METAL CHIP	470 0.5% 1/16W
R370	1-218-709-11	METAL CHIP	5.1K 0.5% 1/16W	R462	1-216-864-11	SHORT	0
R372	1-216-855-11	RES-CHIP	680K 5% 1/16W	R463	1-216-864-11	SHORT	0
R374	1-216-864-11	SHORT	0	R464	1-216-805-11	RES-CHIP	47 5% 1/16W
R375	1-216-835-11	RES-CHIP	15K 5% 1/16W	R465	1-216-805-11	RES-CHIP	47 5% 1/16W
R376	1-216-841-11	RES-CHIP	47K 5% 1/16W	R466	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R377	1-216-835-11	RES-CHIP	15K 5% 1/16W	R467	1-218-684-11	METAL CHIP	470 0.5% 1/16W
R378	1-216-835-11	RES-CHIP	15K 5% 1/16W	R473	1-216-864-11	SHORT	0
R379	1-216-815-11	RES-CHIP	330 5% 1/16W	R480	1-216-809-11	RES-CHIP	100 5% 1/16W
R381	1-216-815-11	RES-CHIP	330 5% 1/16W	R481	1-216-864-11	SHORT	0
R382	1-216-864-11	SHORT	0	R492	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R383	1-216-864-11	SHORT	0	R494	1-216-821-11	RES-CHIP	1K 5% 1/16W
R389	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R495	1-216-821-11	RES-CHIP	1K 5% 1/16W
R390	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R496	1-216-821-11	RES-CHIP	1K 5% 1/16W
R392	1-216-864-11	SHORT	0	R497	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R393	1-216-864-11	SHORT	0	R520	1-216-809-11	RES-CHIP	100 5% 1/16W
R394	1-216-864-11	SHORT	0	R526	1-216-809-11	RES-CHIP	100 5% 1/16W
R395	1-216-864-11	SHORT	0	R565	1-216-864-11	SHORT	0
R396	1-216-864-11	SHORT	0	R566	1-216-864-11	SHORT	0
R397	1-216-805-11	RES-CHIP	47 5% 1/16W	R567	1-216-864-11	SHORT	0
R398	1-216-805-11	RES-CHIP	47 5% 1/16W	R568	1-216-864-11	SHORT	0
R399	1-216-864-11	SHORT	0	R569	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R404	1-216-864-11	SHORT	0	R571	1-216-864-11	SHORT	0
R408	1-216-809-11	RES-CHIP	100 5% 1/16W	R576	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W
R412	1-216-819-11	RES-CHIP	680 5% 1/16W	R578	1-218-716-11	METAL CHIP	10K 0.5% 1/16W
R413	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R579	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R418	1-216-809-11	RES-CHIP	100 5% 1/16W	R580	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R419	1-216-815-11	RES-CHIP	330 5% 1/16W	R581	1-216-833-11	RES-CHIP	10K 5% 1/16W
R420	1-216-809-11	RES-CHIP	100 5% 1/16W	R582	1-216-833-11	RES-CHIP	10K 5% 1/16W
R421	1-216-864-11	SHORT	0	R590	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R422	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R591	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R425	1-216-864-11	SHORT	0	R592	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R426	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R594	1-216-801-11	RES-CHIP	22 5% 1/16W
R428	1-216-821-11	RES-CHIP	1K 5% 1/16W	R595	1-216-801-11	RES-CHIP	22 5% 1/16W
R434	1-216-809-11	RES-CHIP	100 5% 1/16W	R596	1-216-821-11	RES-CHIP	1K 5% 1/16W
R435	1-216-819-11	RES-CHIP	680 5% 1/16W	R597	1-216-821-11	RES-CHIP	1K 5% 1/16W
R437	1-216-864-11	SHORT	0	R598	1-216-821-11	RES-CHIP	1K 5% 1/16W
R438	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R599	1-216-801-11	RES-CHIP	22 5% 1/16W
R440	1-216-855-11	RES-CHIP	680K 5% 1/16W	R600	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R442	1-216-864-11	SHORT	0	R601	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W
R443	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R602	1-218-704-11	METAL CHIP	3.3K 0.5% 1/16W
R445	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R603	1-218-669-11	METAL CHIP	110 0.5% 1/16W
R446	1-216-813-11	RES-CHIP	220 5% 1/16W	R604	1-218-669-11	METAL CHIP	110 0.5% 1/16W
R448	1-216-864-11	SHORT	0	R605	1-218-669-11	METAL CHIP	110 0.5% 1/16W
R449	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R606	1-216-833-11	RES-CHIP	10K 5% 1/16W
R450	1-216-864-11	SHORT	0	R607	1-216-833-11	RES-CHIP	10K 5% 1/16W
R451	1-216-822-11	RES-CHIP	1.2K 5% 1/16W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R608	1-216-833-11	RES-CHIP	10K 5% 1/16W	R666	1-216-807-11	RES-CHIP	68 5% 1/16W
R609	1-216-833-11	RES-CHIP	10K 5% 1/16W	R667	1-216-807-11	RES-CHIP	68 5% 1/16W
R610	1-216-833-11	RES-CHIP	10K 5% 1/16W	R668	1-216-807-11	RES-CHIP	68 5% 1/16W
R611	1-216-864-11	SHORT	0	R669	1-216-807-11	RES-CHIP	68 5% 1/16W
R612	1-216-864-11	SHORT	0				
R614	1-216-864-11	SHORT	0	R670	1-216-807-11	RES-CHIP	68 5% 1/16W
R615	1-216-814-11	RES-CHIP	270 5% 1/16W	R671	1-216-807-11	RES-CHIP	68 5% 1/16W
R616	1-216-809-11	RES-CHIP	100 5% 1/16W	R672	1-216-807-11	RES-CHIP	68 5% 1/16W
R617	1-216-809-11	RES-CHIP	100 5% 1/16W	R673	1-216-807-11	RES-CHIP	68 5% 1/16W
R618	1-216-809-11	RES-CHIP	100 5% 1/16W	R674	1-216-807-11	RES-CHIP	68 5% 1/16W
R619	1-216-864-11	SHORT	0	R675	1-216-807-11	RES-CHIP	68 5% 1/16W
R620	1-216-864-11	SHORT	0	R676	1-216-807-11	RES-CHIP	68 5% 1/16W
R621	1-216-809-11	RES-CHIP	100 5% 1/16W	R677	1-216-807-11	RES-CHIP	68 5% 1/16W
R623	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R678	1-216-807-11	RES-CHIP	68 5% 1/16W
R624	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R679	1-216-801-11	RES-CHIP	22 5% 1/16W
R625	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R680	1-216-807-11	RES-CHIP	68 5% 1/16W
R626	1-216-864-11	SHORT	0	R681	1-216-807-11	RES-CHIP	68 5% 1/16W
R627	1-216-809-11	RES-CHIP	100 5% 1/16W	R682	1-216-807-11	RES-CHIP	68 5% 1/16W
R628	1-216-809-11	RES-CHIP	100 5% 1/16W	R683	1-216-807-11	RES-CHIP	68 5% 1/16W
R629	1-216-864-11	SHORT	0	R684	1-216-807-11	RES-CHIP	68 5% 1/16W
R630	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R685	1-216-807-11	RES-CHIP	68 5% 1/16W
R631	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R686	1-216-807-11	RES-CHIP	68 5% 1/16W
R632	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R687	1-216-807-11	RES-CHIP	68 5% 1/16W
R633	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W	R688	1-216-801-11	RES-CHIP	22 5% 1/16W
R634	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R689	1-216-805-11	RES-CHIP	47 5% 1/16W
R635	1-216-864-11	SHORT	0	R690	1-216-805-11	RES-CHIP	47 5% 1/16W
R636	1-216-864-11	SHORT	0	R691	1-216-805-11	RES-CHIP	47 5% 1/16W
R637	1-218-712-11	METAL CHIP	6.8K 0.5% 1/16W	R692	1-216-805-11	RES-CHIP	47 5% 1/16W
R638	1-218-692-11	METAL CHIP	1K 0.5% 1/16W	R693	1-216-805-11	RES-CHIP	47 5% 1/16W
R639	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R694	1-216-805-11	RES-CHIP	47 5% 1/16W
R640	1-216-830-11	RES-CHIP	5.6K 5% 1/16W	R695	1-216-805-11	RES-CHIP	47 5% 1/16W
R641	1-216-830-11	RES-CHIP	5.6K 5% 1/16W	R696	1-216-805-11	RES-CHIP	47 5% 1/16W
R642	1-216-830-11	RES-CHIP	5.6K 5% 1/16W	R697	1-216-805-11	RES-CHIP	47 5% 1/16W
R643	1-216-807-11	RES-CHIP	68 5% 1/16W	R698	1-216-805-11	RES-CHIP	47 5% 1/16W
R644	1-216-807-11	RES-CHIP	68 5% 1/16W	R699	1-216-864-11	SHORT	0
R645	1-216-809-11	RES-CHIP	100 5% 1/16W	R700	1-216-864-11	SHORT	0
R646	1-216-807-11	RES-CHIP	68 5% 1/16W	R701	1-216-296-11	SHORT	0
R647	1-216-809-11	RES-CHIP	100 5% 1/16W	R702	1-218-719-11	METAL CHIP	13K 0.5% 1/16W
R648	1-216-809-11	RES-CHIP	100 5% 1/16W	R703	1-216-809-11	RES-CHIP	100 5% 1/16W
R649	1-216-809-11	RES-CHIP	100 5% 1/16W	R705	1-216-809-11	RES-CHIP	100 5% 1/16W
R650	1-216-809-11	RES-CHIP	100 5% 1/16W	R706	1-218-732-11	METAL CHIP	47K 0.5% 1/16W
R651	1-216-805-11	RES-CHIP	47 5% 1/16W	R707	1-216-809-11	RES-CHIP	100 5% 1/16W
R652	1-216-805-11	RES-CHIP	47 5% 1/16W	R708	1-216-864-11	SHORT	0
R653	1-216-805-11	RES-CHIP	47 5% 1/16W	R709	1-218-724-11	METAL CHIP	22K 0.5% 1/16W
R654	1-216-805-11	RES-CHIP	47 5% 1/16W	R710	1-216-864-11	SHORT	0
R655	1-216-805-11	RES-CHIP	47 5% 1/16W	R711	1-216-864-11	SHORT	0
R656	1-216-805-11	RES-CHIP	47 5% 1/16W	R713	1-216-809-11	RES-CHIP	100 5% 1/16W
R657	1-216-805-11	RES-CHIP	47 5% 1/16W	R714	1-216-864-11	SHORT	0
R658	1-216-805-11	RES-CHIP	47 5% 1/16W	R715	1-216-864-11	SHORT	0
R659	1-216-805-11	RES-CHIP	47 5% 1/16W	R716	1-216-809-11	RES-CHIP	100 5% 1/16W
R660	1-216-805-11	RES-CHIP	47 5% 1/16W	R717	1-216-805-11	RES-CHIP	47 5% 1/16W
R661	1-216-805-11	RES-CHIP	47 5% 1/16W	R718	1-216-809-11	RES-CHIP	100 5% 1/16W
R662	1-216-805-11	RES-CHIP	47 5% 1/16W	R719	1-216-864-11	SHORT	0
R663	1-216-807-11	RES-CHIP	68 5% 1/16W	R720	1-216-864-11	SHORT	0
R664	1-216-807-11	RES-CHIP	68 5% 1/16W	R721	1-216-809-11	RES-CHIP	100 5% 1/16W
R665	1-216-807-11	RES-CHIP	68 5% 1/16W	R722	1-216-805-11	RES-CHIP	47 5% 1/16W
				R723	1-216-809-11	RES-CHIP	100 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R724	1-216-864-11	SHORT	0	R787	1-216-801-11	RES-CHIP	22 5% 1/16W
R725	1-216-809-11	RES-CHIP	100 5% 1/16W	R788	1-216-809-11	RES-CHIP	100 5% 1/16W
R726	1-216-864-11	SHORT	0	R789	1-216-809-11	RES-CHIP	100 5% 1/16W
R727	1-218-746-11	METAL CHIP	180K 0.5% 1/16W	R790	1-216-809-11	RES-CHIP	100 5% 1/16W
R731	1-216-805-11	RES-CHIP	47 5% 1/16W	R791	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R732	1-216-864-11	SHORT	0	R792	1-216-809-11	RES-CHIP	100 5% 1/16W
R733	1-216-805-11	RES-CHIP	47 5% 1/16W	R794	1-216-864-11	SHORT	0
R734	1-216-864-11	SHORT	0	R795	1-216-801-11	RES-CHIP	22 5% 1/16W
R735	1-216-809-11	RES-CHIP	100 5% 1/16W	R796	1-216-801-11	RES-CHIP	22 5% 1/16W
R736	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R797	1-216-864-11	SHORT	0
R737	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R798	1-216-864-11	SHORT	0
R738	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R799	1-216-864-11	SHORT	0
R740	1-216-809-11	RES-CHIP	100 5% 1/16W	R800	1-216-864-11	SHORT	0
R741	1-216-864-11	SHORT	0	R802	1-216-864-11	SHORT	0
R742	1-216-864-11	SHORT	0	R807	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R744	1-218-692-11	METAL CHIP	1K 0.5% 1/16W	R811	1-216-809-11	RES-CHIP	100 5% 1/16W
R745	1-218-692-11	METAL CHIP	1K 0.5% 1/16W	R812	1-216-809-11	RES-CHIP	100 5% 1/16W
R746	1-216-864-11	SHORT	0	R814	1-216-801-11	RES-CHIP	22 5% 1/16W
R747	1-216-805-11	RES-CHIP	47 5% 1/16W	R815	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
R748	1-216-809-11	RES-CHIP	100 5% 1/16W	R816	1-216-809-11	RES-CHIP	100 5% 1/16W
R749	1-216-805-11	RES-CHIP	47 5% 1/16W	R817	1-216-826-11	RES-CHIP	2.7K 5% 1/16W
R750	1-216-864-11	SHORT	0	R818	1-216-809-11	RES-CHIP	100 5% 1/16W
R751	1-216-809-11	RES-CHIP	100 5% 1/16W	R819	1-216-809-11	RES-CHIP	100 5% 1/16W
R752	1-216-805-11	RES-CHIP	47 5% 1/16W	R820	1-216-801-11	RES-CHIP	22 5% 1/16W
R753	1-216-805-11	RES-CHIP	47 5% 1/16W	R821	1-216-821-11	RES-CHIP	1K 5% 1/16W
R754	1-216-809-11	RES-CHIP	100 5% 1/16W	R822	1-216-809-11	RES-CHIP	100 5% 1/16W
R755	1-216-805-11	RES-CHIP	47 5% 1/16W	R823	1-218-720-11	METAL CHIP	15K 0.5% 1/16W
R756	1-216-809-11	RES-CHIP	100 5% 1/16W	R824	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R757	1-216-801-11	RES-CHIP	22 5% 1/16W	R825	1-216-821-11	RES-CHIP	1K 5% 1/16W
R758	1-216-821-11	RES-CHIP	1K 5% 1/16W	R826	1-216-809-11	RES-CHIP	100 5% 1/16W
R759	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R827	1-218-731-11	METAL CHIP	43K 0.5% 1/16W
R760	1-216-863-11	RES-CHIP	3.3M 5% 1/16W	R828	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R761	1-216-805-11	RES-CHIP	47 5% 1/16W	R829	1-216-821-11	RES-CHIP	1K 5% 1/16W
R762	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R830	1-216-864-11	SHORT	0
R763	1-218-728-11	METAL CHIP	33K 0.5% 1/16W	R831	1-216-809-11	RES-CHIP	100 5% 1/16W
R764	1-218-713-11	METAL CHIP	7.5K 0.5% 1/16W	R832	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R765	1-216-801-11	RES-CHIP	22 5% 1/16W	R833	1-216-864-11	SHORT	0
R766	1-218-734-11	METAL CHIP	56K 0.5% 1/16W	R834	1-216-864-11	SHORT	0
R767	1-216-833-11	RES-CHIP	10K 5% 1/16W	R835	1-216-864-11	SHORT	0
R768	1-216-801-11	RES-CHIP	22 5% 1/16W	R836	1-216-809-11	RES-CHIP	100 5% 1/16W
R770	1-216-809-11	RES-CHIP	100 5% 1/16W	R837	1-216-864-11	SHORT	0
R771	1-216-809-11	RES-CHIP	100 5% 1/16W	R838	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R772	1-216-809-11	RES-CHIP	100 5% 1/16W	R839	1-216-864-11	SHORT	0
R773	1-218-732-11	METAL CHIP	47K 0.5% 1/16W	R840	1-216-809-11	RES-CHIP	100 5% 1/16W
R774	1-218-748-11	METAL CHIP	220K 0.5% 1/16W	R841	1-216-864-11	SHORT	0
R775	1-216-809-11	RES-CHIP	100 5% 1/16W	R842	1-216-809-11	RES-CHIP	100 5% 1/16W
R776	1-216-864-11	SHORT	0	R843	1-216-809-11	RES-CHIP	100 5% 1/16W
R777	1-216-833-11	RES-CHIP	10K 5% 1/16W	R844	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R778	1-216-809-11	RES-CHIP	100 5% 1/16W	R845	1-216-824-11	RES-CHIP	1.8K 5% 1/16W
R779	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R846	1-216-823-11	RES-CHIP	1.5K 5% 1/16W
R781	1-216-809-11	RES-CHIP	100 5% 1/16W	R850	1-216-817-11	RES-CHIP	470 5% 1/16W
R782	1-216-864-11	SHORT	0	R851	1-216-817-11	RES-CHIP	470 5% 1/16W
R783	1-216-809-11	RES-CHIP	100 5% 1/16W	R852	1-216-817-11	RES-CHIP	470 5% 1/16W
R784	1-216-864-11	SHORT	0	R853	1-216-820-11	RES-CHIP	820 5% 1/16W
R785	1-216-801-11	RES-CHIP	22 5% 1/16W	R854	1-216-820-11	RES-CHIP	820 5% 1/16W
R786	1-216-833-11	RES-CHIP	10K 5% 1/16W	R855	1-216-820-11	RES-CHIP	820 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R858	1-218-690-11	METAL CHIP 820	0.5% 1/16W	R7705	1-216-818-11	RES-CHIP 560	5% 1/16W
R859	1-218-690-11	METAL CHIP 820	0.5% 1/16W	R7706	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R861	1-216-864-11	SHORT 0		R7707	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R862	1-216-864-11	SHORT 0		R7708	1-218-676-11	METAL CHIP 220	0.5% 1/16W
R864	1-216-864-11	SHORT 0		R7712	1-216-864-11	SHORT 0	
R865	1-216-864-11	SHORT 0					
R866	1-216-864-11	SHORT 0		R7713	1-216-864-11	SHORT 0	
R867	1-216-864-11	SHORT 0		R7714	1-216-864-11	SHORT 0	
R868	1-216-864-11	SHORT 0		R7715	1-218-700-11	METAL CHIP 2.2K	0.5% 1/16W
R869	1-216-864-11	SHORT 0		R7716	1-218-700-11	METAL CHIP 2.2K	0.5% 1/16W
R870	1-216-864-11	SHORT 0		R7717	1-218-700-11	METAL CHIP 2.2K	0.5% 1/16W
R871	1-216-864-11	SHORT 0		R7718	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R872	1-218-690-11	METAL CHIP 820	0.5% 1/16W	R7719	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R874	1-216-809-11	RES-CHIP 100	5% 1/16W	R7720	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R879	1-216-864-11	SHORT 0		R7721	1-216-809-11	RES-CHIP 100	5% 1/16W
R880	1-216-817-11	RES-CHIP 470	5% 1/16W	R7722	1-216-821-11	RES-CHIP 1K	5% 1/16W
R881	1-218-678-11	METAL CHIP 270	0.5% 1/16W	R7723	1-216-806-11	RES-CHIP 56	5% 1/16W
R883	1-218-700-11	METAL CHIP 2.2K	0.5% 1/16W	R7725	1-216-864-11	SHORT 0	
R884	1-216-820-11	RES-CHIP 820	5% 1/16W	R7726	1-216-801-11	RES-CHIP 22	5% 1/16W
R885	1-216-864-11	SHORT 0		R7728	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R886	1-216-817-11	RES-CHIP 470	5% 1/16W	R7729	1-216-864-11	SHORT 0	
R887	1-218-678-11	METAL CHIP 270	0.5% 1/16W	R7730	1-216-809-11	RES-CHIP 100	5% 1/16W
R889	1-218-700-11	METAL CHIP 2.2K	0.5% 1/16W	R7731	1-216-809-11	RES-CHIP 100	5% 1/16W
R890	1-216-820-11	RES-CHIP 820	5% 1/16W	R7732	1-216-809-11	RES-CHIP 100	5% 1/16W
R891	1-216-864-11	SHORT 0		R7733	1-216-809-11	RES-CHIP 100	5% 1/16W
R892	1-216-817-11	RES-CHIP 470	5% 1/16W	R7734	1-216-821-11	RES-CHIP 1K	5% 1/16W
R893	1-218-678-11	METAL CHIP 270	0.5% 1/16W	R7735	1-216-821-11	RES-CHIP 1K	5% 1/16W
R895	1-218-700-11	METAL CHIP 2.2K	0.5% 1/16W	R7736	1-216-821-11	RES-CHIP 1K	5% 1/16W
R896	1-216-820-11	RES-CHIP 820	5% 1/16W	R7740	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R897	1-216-864-11	SHORT 0		R7741	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R898	1-216-864-11	SHORT 0		R7742	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R899	1-216-864-11	SHORT 0		R7743	1-216-864-11	SHORT 0	
R900	1-216-864-11	SHORT 0		R7744	1-216-864-11	SHORT 0	
R901	1-216-864-11	SHORT 0		R7745	1-216-864-11	SHORT 0	
R902	1-216-864-11	SHORT 0		R7746	1-216-818-11	RES-CHIP 560	5% 1/16W
R905	1-216-805-11	RES-CHIP 47	5% 1/16W	R7747	1-216-818-11	RES-CHIP 560	5% 1/16W
R906	1-216-805-11	RES-CHIP 47	5% 1/16W	R7748	1-216-818-11	RES-CHIP 560	5% 1/16W
R907	1-216-803-11	RES-CHIP 33	5% 1/16W	R7749	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R908	1-216-803-11	RES-CHIP 33	5% 1/16W	R7750	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R909	1-216-296-11	SHORT 0		R7751	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R6502	1-216-864-11	SHORT 0		R7752	1-216-821-11	RES-CHIP 1K	5% 1/16W
R6508	1-216-797-11	RES-CHIP 10	5% 1/16W	R7753	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R6509	1-216-821-11	RES-CHIP 1K	5% 1/16W	R7754	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R6511	1-216-829-11	RES-CHIP 4.7K	5% 1/16W	R7755	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R6512	1-216-829-11	RES-CHIP 4.7K	5% 1/16W	R7756	1-216-822-11	RES-CHIP 1.2K	5% 1/16W
R6513	1-216-829-11	RES-CHIP 4.7K	5% 1/16W	R7757	1-216-833-11	RES-CHIP 10K	5% 1/16W
R6514	1-216-829-11	RES-CHIP 4.7K	5% 1/16W	R7759	1-216-864-11	SHORT 0	
R6521	1-216-797-11	RES-CHIP 10	5% 1/16W	R7760	1-216-864-11	SHORT 0	
R6524	1-216-864-11	SHORT 0		R7766	1-216-864-11	SHORT 0	
R6531	1-216-864-11	SHORT 0		R7770	1-216-296-11	SHORT 0	
R6542	1-216-821-11	RES-CHIP 1K	5% 1/16W	R7773	1-216-864-11	SHORT 0	
R7700	1-216-864-11	SHORT 0		R7775	1-216-864-11	SHORT 0	
R7701	1-216-864-11	SHORT 0		R7800	1-216-864-11	SHORT 0	
R7702	1-216-864-11	SHORT 0		R7801	1-216-864-11	SHORT 0	
R7703	1-216-818-11	RES-CHIP 560	5% 1/16W	R7802	1-216-864-11	SHORT 0	
R7704	1-216-818-11	RES-CHIP 560	5% 1/16W	R7805	1-216-864-11	SHORT 0	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R7806	1-216-864-11	SHORT	0	C3021	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
R7807	1-216-864-11	SHORT	0	C3022	1-126-947-11	ELECT 47μF	20% 16V
R7808	1-216-864-11	SHORT	0	C3023	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
< NETWORK RESISTOR >				C3024	1-126-947-11	ELECT 47μF	20% 16V
RB301	1-233-576-11	RES, CHIP NETWORK	100	C3025	1-126-964-11	ELECT 10μF	20% 50V
RB302	1-233-576-11	RES, CHIP NETWORK	100	C3026	1-164-156-11	CERAMIC CHIP 0.1μF	25V
RB303	1-233-576-11	RES, CHIP NETWORK	100	C3027	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V
RB304	1-233-576-11	RES, CHIP NETWORK	100	C3029	1-164-156-11	CERAMIC CHIP 0.1μF	25V
RB305	1-233-576-11	RES, CHIP NETWORK	100	C3030	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
RB306	1-233-576-11	RES, CHIP NETWORK	100	C3031	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
RB307	1-233-388-11	RES, NETWORK	68	C3032	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
RB308	1-233-388-11	RES, NETWORK	68	C3033	1-164-156-11	CERAMIC CHIP 0.1μF	25V
RB309	1-233-388-11	RES, NETWORK	68	C3034	1-126-964-11	ELECT 10μF	20% 50V
RB310	1-233-388-11	RES, NETWORK	68	C3035	1-164-156-11	CERAMIC CHIP 0.1μF	25V
RB507	1-233-576-11	RES, CHIP NETWORK	100	C3036	1-115-156-11	CERAMIC CHIP 1μF	10V
RB508	1-233-576-11	RES, CHIP NETWORK	100	C3037	1-125-837-91	CERAMIC CHIP 1μF	10% 6.3V
RB509	1-233-576-11	RES, CHIP NETWORK	100	C3038	1-126-947-11	ELECT 47μF	20% 16V
RB510	1-233-576-11	RES, CHIP NETWORK	100	C3040	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V
RB511	1-233-576-11	RES, CHIP NETWORK	100	C3041	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V
RB512	1-233-576-11	RES, CHIP NETWORK	100	C3042	1-164-816-11	CERAMIC CHIP 220pF	2% 50V
< CRYSTAL >				C3044	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
X001	1-781-945-21	VIBRATOR, CERAMIC (20MHz)		C3045	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
X501	1-781-887-21	VIBRATOR, CRYSTAL (18.543956MHz)		C3046	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
X502	1-781-579-21	OSCILLATOR, CRYSTAL (74.175824MHz)		C3047	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
*****				C3048	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
* A-1136-264-A BC BOARD, COMPLETE				C3049	1-164-156-11	CERAMIC CHIP 0.1μF	25V
*****				C3050	1-164-156-11	CERAMIC CHIP 0.1μF	25V
3-701-809-21 SCREW, TERMINAL (M3X6)				C3051	1-164-156-11	CERAMIC CHIP 0.1μF	25V
< CAPACITOR >				C3052	1-126-933-11	ELECT 100μF	20% 16V
C3001	1-126-935-11	ELECT 470μF	20% 10V	C3053	1-162-921-11	CERAMIC CHIP 33pF	5% 50V
C3002	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C3056	1-126-947-11	ELECT 47μF	20% 16V
C3003	1-126-947-11	ELECT 47μF	20% 16V	C3057	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3004	1-126-947-11	ELECT 47μF	20% 16V	C3058	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C3005	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C3059	1-162-968-11	CERAMIC CHIP 0.0047μF	10% 50V
C3006	1-126-933-11	ELECT 100μF	20% 16V	C3061	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3007	1-126-964-11	ELECT 10μF	20% 50V	C3063	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V
C3008	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3066	1-126-947-11	ELECT 47μF	20% 16V
C3009	1-126-964-11	ELECT 10μF	20% 50V	C3068	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3010	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3069	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3011	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3070	1-126-947-11	ELECT 47μF	20% 16V
C3012	1-126-964-11	ELECT 10μF	20% 50V	C3071	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C3013	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C3073	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3014	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3074	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3015	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C3075	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3016	1-126-947-11	ELECT 47μF	20% 16V	C3077	1-126-935-11	ELECT 470μF	20% 10V
C3017	1-126-947-11	ELECT 47μF	20% 16V	C3078	1-126-963-11	ELECT 4.7μF	20% 50V
C3018	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3079	1-164-156-11	CERAMIC CHIP 0.1μF	25V
C3019	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3081	1-164-156-11	CERAMIC CHIP 0.1μF	25V
C3020	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C3082	1-126-964-11	ELECT 10μF	20% 50V
				C3083	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
				C3085	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C3086	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C3087	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C3088	1-162-916-11	CERAMIC CHIP 12pF	5% 50V
				C3089	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
				C3090	1-164-315-11	CERAMIC CHIP 470pF	5% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3092	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C3154	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
C3093	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C3155	1-162-968-11	CERAMIC CHIP 0.0047μF	10% 50V
C3094	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	C3156	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V
C3095	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V				
C3096	1-126-947-11	ELECT 47μF	20% 16V	C3158	1-126-947-11	ELECT 47μF	20% 16V
C3097	1-164-156-11	CERAMIC CHIP 0.1μF	25V	C3159	1-164-156-11	CERAMIC CHIP 0.1μF	25V
C3098	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V	C3160	1-164-156-11	CERAMIC CHIP 0.1μF	25V
C3099	1-126-964-11	ELECT 10μF	20% 50V	C3162	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V
C3101	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V				
C3102	1-164-156-11	CERAMIC CHIP 0.1μF	25V	< CONNECTOR >			
C3103	1-126-947-11	ELECT 47μF	20% 16V	CN3001*1-793-923-11 CONNECTOR, DIN (PLUG) 64P			
C3104	1-126-963-11	ELECT 4.7μF	20% 50V				
C3105	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V	< DIODE >			
C3106	1-164-156-11	CERAMIC CHIP 0.1μF	25V				
C3107	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	D3001	8-719-978-33	DIODE DTZ-TT11-6.8B	
C3108	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	D3002	8-719-041-97	DIODE MA113-(TX)	
C3109	1-126-935-11	ELECT 470μF	20% 10V	D3003	8-719-041-97	DIODE MA113-(TX)	
C3110	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	D3004	8-719-041-97	DIODE MA113-(TX)	
C3111	1-164-816-11	CERAMIC CHIP 220pF	2% 50V				
C3112	1-126-947-11	ELECT 47μF	20% 16V	< FERRITE BEAD >			
C3113	1-164-156-11	CERAMIC CHIP 0.1μF	25V				
C3115	1-162-974-11	CERAMIC CHIP 0.01μF	50V	FB3001	1-414-235-22	FERRITE 0μH	
C3116	1-164-816-11	CERAMIC CHIP 220pF	2% 50V				
C3117	1-126-947-11	ELECT 47μF	20% 25V	< FILTER >			
C3118	1-164-156-11	CERAMIC CHIP 0.1μF	25V				
C3120	1-126-935-11	ELECT 470μF	20% 10V	FL3001	1-234-558-21	FILTER, LOW PASS	
C3121	1-164-156-11	CERAMIC CHIP 0.1μF	25V	FL3002	1-234-557-21	FILTER, LOW PASS	
C3122	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	FL3003	1-234-557-21	FILTER, LOW PASS	
C3123	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	FL3004	1-234-557-21	FILTER, LOW PASS	
C3124	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	FL3005	1-234-557-21	FILTER, LOW PASS	
C3125	1-126-963-11	ELECT 4.7μF	20% 50V	FL3006	1-234-558-21	FILTER, LOW PASS	
C3126	1-126-964-11	ELECT 10μF	20% 50V				
C3127	1-164-156-11	CERAMIC CHIP 0.1μF	25V	< IC >			
C3128	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V				
C3129	1-126-933-11	ELECT 100μF	20% 16V	IC3001	8-752-916-40	IC CXP85840A-039Q	
C3130	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC3002	8-752-395-13	IC CXD2085M-T4	
C3131	1-162-916-11	CERAMIC CHIP 12pF	5% 50V	IC3003	8-752-093-84	IC CXA2151Q	
C3132	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	IC3004	8-752-089-50	IC CXA2103Q	
C3133	1-164-315-11	CERAMIC CHIP 470pF	5% 50V	IC3005	8-759-596-34	IC SN74LV4053APWR	
C3134	1-162-917-11	CERAMIC CHIP 15pF	5% 50V	IC3006	8-759-595-97	IC SN74LV4053ANSR	
C3135	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	IC3007	8-759-700-07	IC NJM2903M	
C3136	1-115-416-11	CERAMIC CHIP 0.001μF	5% 25V	IC3008	8-759-572-04	IC TDA9178T/N1.118	
C3137	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC3009	8-752-916-40	IC CXP85840A-039Q	
C3138	1-164-816-11	CERAMIC CHIP 220pF	2% 50V	IC3010	8-752-089-50	IC CXA2103Q	
C3140	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	IC3011	8-759-831-53	IC MC74LVX8053DR2	
C3141	1-126-947-11	ELECT 47μF	20% 16V	IC3012	8-759-596-34	IC SN74LV4053APWR	
C3142	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	IC3013	8-759-349-11	IC PST9145NL	
C3143	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V	IC3014	8-759-196-96	IC TC7SH08FU-TE85R	
C3144	1-162-917-11	CERAMIC CHIP 15pF	5% 50V				
C3145	1-164-156-11	CERAMIC CHIP 0.1μF	25V	< COIL >			
C3147	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V				
C3148	1-126-963-11	ELECT 4.7μF	20% 50V	L3001	1-469-555-21	INDUCTOR 10μH	
C3149	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V	L3002	1-469-555-21	INDUCTOR 10μH	
C3150	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	L3003	1-469-555-21	INDUCTOR 10μH	
C3152	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V	L3004	1-469-555-21	INDUCTOR 10μH	
C3153	1-126-935-11	ELECT 470μF	20% 10V	L3005	1-414-856-11	INDUCTOR 10μH	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L3006	1-469-555-21	INDUCTOR	10μH	Q3036	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3007	1-469-555-21	INDUCTOR	10μH	Q3037	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3008	1-469-555-21	INDUCTOR	10μH	Q3038	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3009	1-469-555-21	INDUCTOR	10μH	Q3040	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3010	1-469-555-21	INDUCTOR	10μH	Q3041	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3011	1-469-555-21	INDUCTOR	10μH	Q3042	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3012	1-469-555-21	INDUCTOR	10μH	Q3043	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3013	1-216-864-11	SHORT	0	Q3044	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3014	1-469-555-21	INDUCTOR	10μH	Q3045	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3015	1-216-864-11	SHORT	0	Q3046	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3016	1-469-555-21	INDUCTOR	10μH	Q3047	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3017	1-469-555-21	INDUCTOR	10μH	Q3048	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3018	1-469-555-21	INDUCTOR	10μH	Q3049	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3019	1-469-555-21	INDUCTOR	10μH	Q3050	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3020	1-414-856-11	INDUCTOR	10μH	Q3051	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3021	1-469-555-21	INDUCTOR	10μH	Q3052	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L3022	1-469-555-21	INDUCTOR	10μH	Q3054	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3023	1-469-555-21	INDUCTOR	10μH	Q3055	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L3024	1-412-005-11	INDUCTOR	8.2μH	Q3056	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
< TRANSISTOR >				Q3057	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3001	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3058	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3059	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3003	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3060	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3004	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3061	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3005	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3062	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3006	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3063	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3064	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3008	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3065	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q3066	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3010	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3067	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3011	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3068	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3012	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3069	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3013	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		Q3070	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3014	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		Q3071	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3015	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3072	8-729-122-63	TRANSISTOR 2SA1226	
Q3016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q3073	8-729-122-63	TRANSISTOR 2SA1226	
Q3017	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3074	8-729-122-63	TRANSISTOR 2SA1226	
Q3018	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3075	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3019	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q3076	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3020	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		Q3077	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3021	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q3078	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3022	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		Q3079	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q3023	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		< RESISTOR >			
Q3024	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R3001	1-216-837-11	RES-CHIP	22K 5% 1/16W
Q3025	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3002	1-216-837-11	RES-CHIP	22K 5% 1/16W
Q3026	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3003	1-218-285-11	RES-CHIP	75 5% 1/16W
Q3027	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3004	1-218-285-11	RES-CHIP	75 5% 1/16W
Q3028	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R3005	1-216-807-11	RES-CHIP	68 5% 1/16W
Q3029	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3006	1-216-809-11	RES-CHIP	100 5% 1/16W
Q3030	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3007	1-216-837-11	RES-CHIP	22K 5% 1/16W
Q3031	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3008	1-218-285-11	RES-CHIP	75 5% 1/16W
Q3032	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3009	1-216-837-11	RES-CHIP	22K 5% 1/16W
Q3033	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3010	1-216-809-11	RES-CHIP	100 5% 1/16W
Q3034	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q3035	8-729-120-28	TRANSISTOR 2SC1623-L5L6					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3011	1-216-807-11	RES-CHIP	68 5% 1/16W	R3068	1-218-675-11	METAL CHIP	200 0.5% 1/16W
R3012	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3069	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3013	1-216-813-11	RES-CHIP	220 5% 1/16W	R3070	1-216-833-11	RES-CHIP	10K 5% 1/16W
R3014	1-216-805-11	RES-CHIP	47 5% 1/16W	R3071	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3015	1-216-821-11	RES-CHIP	1K 5% 1/16W				
R3016	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3072	1-216-815-11	RES-CHIP	330 5% 1/16W
R3017	1-216-807-11	RES-CHIP	68 5% 1/16W	R3073	1-218-675-11	METAL CHIP	200 0.5% 1/16W
R3018	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3074	1-216-809-11	RES-CHIP	100 5% 1/16W
R3019	1-216-864-11	SHORT	0	R3075	1-216-809-11	RES-CHIP	100 5% 1/16W
R3020	1-216-813-11	RES-CHIP	220 5% 1/16W	R3076	1-216-809-11	RES-CHIP	100 5% 1/16W
R3021	1-216-805-11	RES-CHIP	47 5% 1/16W	R3077	1-216-813-11	RES-CHIP	220 5% 1/16W
R3022	1-216-809-11	RES-CHIP	100 5% 1/16W	R3078	1-218-674-11	METAL CHIP	180 0.5% 1/16W
R3023	1-216-805-11	RES-CHIP	47 5% 1/16W	R3079	1-216-809-11	RES-CHIP	100 5% 1/16W
R3024	1-216-805-11	RES-CHIP	47 5% 1/16W	R3080	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3025	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3081	1-216-815-11	RES-CHIP	330 5% 1/16W
R3026	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3082	1-216-809-11	RES-CHIP	100 5% 1/16W
R3027	1-216-809-11	RES-CHIP	100 5% 1/16W	R3083	1-218-841-11	METAL CHIP	560 0.5% 1/10W
R3028	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3084	1-216-857-11	RES-CHIP	1M 5% 1/16W
R3029	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3085	1-216-809-11	RES-CHIP	100 5% 1/16W
R3030	1-216-809-11	RES-CHIP	100 5% 1/16W	R3086	1-216-813-11	RES-CHIP	220 5% 1/16W
R3031	1-216-809-11	RES-CHIP	100 5% 1/16W	R3087	1-218-668-11	METAL CHIP	100 0.5% 1/16W
R3032	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3088	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W
R3033	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3089	1-216-809-11	RES-CHIP	100 5% 1/16W
R3034	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3090	1-218-841-11	METAL CHIP	560 0.5% 1/10W
R3035	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3091	1-216-817-11	RES-CHIP	470 5% 1/16W
R3036	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3092	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3037	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3093	1-216-815-11	RES-CHIP	330 5% 1/16W
R3038	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3094	1-216-821-11	RES-CHIP	1K 5% 1/16W
R3039	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3095	1-216-813-11	RES-CHIP	220 5% 1/16W
R3040	1-216-809-11	RES-CHIP	100 5% 1/16W	R3096	1-216-817-11	RES-CHIP	470 5% 1/16W
R3041	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3097	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3042	1-216-809-11	RES-CHIP	100 5% 1/16W	R3098	1-218-692-11	METAL CHIP	1K 0.5% 1/16W
R3043	1-216-839-11	RES-CHIP	33K 5% 1/16W	R3099	1-218-732-11	METAL CHIP	47K 0.5% 1/16W
R3044	1-216-809-11	RES-CHIP	100 5% 1/16W	R3100	1-218-675-11	METAL CHIP	200 0.5% 1/16W
R3045	1-216-864-11	SHORT	0	R3101	1-218-675-11	METAL CHIP	200 0.5% 1/16W
R3046	1-218-716-11	METAL CHIP	10K 0.5% 1/16W	R3102	1-218-675-11	METAL CHIP	200 0.5% 1/16W
R3047	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3103	1-218-674-11	METAL CHIP	180 0.5% 1/16W
R3048	1-216-797-11	RES-CHIP	10 5% 1/16W	R3105	1-216-809-11	RES-CHIP	100 5% 1/16W
R3049	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3106	1-216-838-11	RES-CHIP	27K 5% 1/16W
R3050	1-216-809-11	RES-CHIP	100 5% 1/16W	R3107	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R3051	1-216-817-11	RES-CHIP	470 5% 1/16W	R3108	1-216-809-11	RES-CHIP	100 5% 1/16W
R3052	1-216-821-11	RES-CHIP	1K 5% 1/16W	R3109	1-218-668-11	METAL CHIP	100 0.5% 1/16W
R3053	1-216-809-11	RES-CHIP	100 5% 1/16W	R3110	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W
R3055	1-216-864-11	SHORT	0	R3111	1-216-809-11	RES-CHIP	100 5% 1/16W
R3056	1-216-809-11	RES-CHIP	100 5% 1/16W	R3112	1-218-841-11	METAL CHIP	560 0.5% 1/10W
R3057	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3113	1-218-668-11	METAL CHIP	100 0.5% 1/16W
R3058	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3114	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W
R3059	1-216-817-11	RES-CHIP	470 5% 1/16W	R3115	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W
R3060	1-216-809-11	RES-CHIP	100 5% 1/16W	R3116	1-218-841-11	METAL CHIP	560 0.5% 1/10W
R3061	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3117	1-218-689-11	METAL CHIP	750 0.5% 1/16W
R3062	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3118	1-216-817-11	RES-CHIP	470 5% 1/16W
R3063	1-216-833-11	RES-CHIP	10K 5% 1/16W	R3119	1-216-841-11	RES-CHIP	47K 5% 1/16W
R3064	1-216-813-11	RES-CHIP	220 5% 1/16W	R3120	1-218-724-11	METAL CHIP	22K 0.5% 1/16W
R3065	1-216-837-11	RES-CHIP	22K 5% 1/16W	R3121	1-216-817-11	RES-CHIP	470 5% 1/16W
R3066	1-216-841-11	RES-CHIP	47K 5% 1/16W	R3122	1-218-674-11	METAL CHIP	180 0.5% 1/16W
R3067	1-218-675-11	METAL CHIP	200 0.5% 1/16W	R3124	1-216-809-11	RES-CHIP	100 5% 1/16W
				R3125	1-218-668-11	METAL CHIP	100 0.5% 1/16W



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R3126	1-218-841-11	METAL CHIP	560	0.5% 1/10W	R3186	1-216-845-11	RES-CHIP	100K	5% 1/16W
R3127	1-216-809-11	RES-CHIP	100	5% 1/16W	R3187	1-216-805-11	RES-CHIP	47	5% 1/16W
R3128	1-216-838-11	RES-CHIP	27K	5% 1/16W					
					R3188	1-216-838-11	RES-CHIP	27K	5% 1/16W
R3129	1-218-690-11	METAL CHIP	820	0.5% 1/16W	R3189	1-216-828-11	RES-CHIP	3.9K	5% 1/16W
R3130	1-216-825-11	RES-CHIP	2.2K	5% 1/16W	R3191	1-216-809-11	RES-CHIP	100	5% 1/16W
R3131	1-216-809-11	RES-CHIP	100	5% 1/16W	R3192	1-216-814-11	RES-CHIP	270	5% 1/16W
R3132	1-218-710-11	METAL CHIP	5.6K	0.5% 1/16W	R3194	1-216-817-11	RES-CHIP	470	5% 1/16W
R3133	1-216-817-11	RES-CHIP	470	5% 1/16W					
					R3195	1-218-690-11	METAL CHIP	820	0.5% 1/16W
R3134	1-218-841-11	METAL CHIP	560	0.5% 1/10W	R3196	1-216-809-11	RES-CHIP	100	5% 1/16W
R3135	1-218-710-11	METAL CHIP	5.6K	0.5% 1/16W	R3198	1-216-809-11	RES-CHIP	100	5% 1/16W
R3136	1-218-668-11	METAL CHIP	100	0.5% 1/16W	R3200	1-216-809-11	RES-CHIP	100	5% 1/16W
R3137	1-216-825-11	RES-CHIP	2.2K	5% 1/16W	R3201	1-218-680-11	METAL CHIP	330	0.5% 1/16W
R3138	1-216-817-11	RES-CHIP	470	5% 1/16W					
					R3202	1-216-809-11	RES-CHIP	100	5% 1/16W
R3139	1-216-805-11	RES-CHIP	47	5% 1/16W	R3203	1-216-845-11	RES-CHIP	100K	5% 1/16W
R3140	1-216-809-11	RES-CHIP	100	5% 1/16W	R3204	1-216-814-11	RES-CHIP	270	5% 1/16W
R3141	1-216-864-11	SHORT	0		R3205	1-216-837-11	RES-CHIP	22K	5% 1/16W
R3142	1-218-668-11	METAL CHIP	100	0.5% 1/16W	R3206	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3143	1-218-676-11	METAL CHIP	220	0.5% 1/16W					
					R3207	1-216-809-11	RES-CHIP	100	5% 1/16W
R3144	1-218-710-11	METAL CHIP	5.6K	0.5% 1/16W	R3208	1-216-809-11	RES-CHIP	100	5% 1/16W
R3145	1-218-688-11	METAL CHIP	680	0.5% 1/16W	R3209	1-216-809-11	RES-CHIP	100	5% 1/16W
R3146	1-216-809-11	RES-CHIP	100	5% 1/16W	R3210	1-216-845-11	RES-CHIP	100K	5% 1/16W
R3147	1-216-817-11	RES-CHIP	470	5% 1/16W	R3211	1-216-813-11	RES-CHIP	220	5% 1/16W
R3148	1-216-813-11	RES-CHIP	220	5% 1/16W					
					R3212	1-218-676-11	METAL CHIP	220	0.5% 1/16W
R3149	1-216-835-11	RES-CHIP	15K	5% 1/16W	R3213	1-218-686-11	METAL CHIP	560	0.5% 1/16W
R3150	1-216-833-11	RES-CHIP	10K	5% 1/16W	R3214	1-216-814-11	RES-CHIP	270	5% 1/16W
R3151	1-216-829-11	RES-CHIP	4.7K	5% 1/16W	R3215	1-216-845-11	RES-CHIP	100K	5% 1/16W
R3152	1-216-845-11	RES-CHIP	100K	5% 1/16W	R3216	1-216-809-11	RES-CHIP	100	5% 1/16W
R3153	1-216-809-11	RES-CHIP	100	5% 1/16W					
					R3218	1-216-817-11	RES-CHIP	470	5% 1/16W
R3154	1-216-842-11	RES-CHIP	56K	5% 1/16W	R3219	1-216-809-11	RES-CHIP	100	5% 1/16W
R3155	1-218-728-11	METAL CHIP	33K	0.5% 1/16W	R3220	1-216-837-11	RES-CHIP	22K	5% 1/16W
R3156	1-218-695-11	METAL CHIP	1.3K	0.5% 1/16W	R3221	1-216-845-11	RES-CHIP	100K	5% 1/16W
R3157	1-218-696-11	METAL CHIP	1.5K	0.5% 1/16W	R3222	1-216-809-11	RES-CHIP	100	5% 1/16W
R3158	1-216-864-11	SHORT	0						
					R3223	1-216-864-11	SHORT	0	
R3159	1-216-864-11	SHORT	0		R3224	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3160	1-216-864-11	SHORT	0		R3225	1-216-864-11	SHORT	0	
R3161	1-216-845-11	RES-CHIP	100K	5% 1/16W	R3226	1-216-805-11	RES-CHIP	47	5% 1/16W
R3162	1-216-838-11	RES-CHIP	27K	5% 1/16W	R3227	1-216-805-11	RES-CHIP	47	5% 1/16W
R3163	1-218-697-11	METAL CHIP	1.6K	0.5% 1/16W					
					R3228	1-216-817-11	RES-CHIP	470	5% 1/16W
R3164	1-216-864-11	SHORT	0		R3229	1-216-835-11	RES-CHIP	15K	5% 1/16W
R3165	1-216-809-11	RES-CHIP	100	5% 1/16W	R3230	1-216-821-11	RES-CHIP	1K	5% 1/16W
R3167	1-216-817-11	RES-CHIP	470	5% 1/16W	R3231	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3168	1-218-688-11	METAL CHIP	680	0.5% 1/16W	R3232	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3169	1-216-809-11	RES-CHIP	100	5% 1/16W					
					R3233	1-216-821-11	RES-CHIP	1K	5% 1/16W
R3171	1-216-845-11	RES-CHIP	100K	5% 1/16W	R3234	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3172	1-216-809-11	RES-CHIP	100	5% 1/16W	R3235	1-216-817-11	RES-CHIP	470	5% 1/16W
R3173	1-216-809-11	RES-CHIP	100	5% 1/16W	R3236	1-216-864-11	SHORT	0	
R3174	1-216-821-11	RES-CHIP	1K	5% 1/16W	R3237	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3175	1-216-817-11	RES-CHIP	470	5% 1/16W					
					R3238	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3176	1-216-842-11	RES-CHIP	56K	5% 1/16W	R3239	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3178	1-218-694-11	METAL CHIP	1.2K	0.5% 1/16W	R3240	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3179	1-216-833-11	RES-CHIP	10K	5% 1/16W	R3241	1-216-821-11	RES-CHIP	1K	5% 1/16W
R3180	1-216-817-11	RES-CHIP	470	5% 1/16W	R3242	1-216-829-11	RES-CHIP	4.7K	5% 1/16W
R3181	1-216-817-11	RES-CHIP	470	5% 1/16W					
					R3243	1-216-809-11	RES-CHIP	100	5% 1/16W
R3182	1-216-805-11	RES-CHIP	47	5% 1/16W	R3244	1-216-864-11	SHORT	0	
R3184	1-216-821-11	RES-CHIP	1K	5% 1/16W	R3245	1-216-833-11	RES-CHIP	10K	5% 1/16W
R3185	1-216-809-11	RES-CHIP	100	5% 1/16W	R3246	1-216-829-11	RES-CHIP	4.7K	5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3247	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	R3307	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3248	1-216-809-11	RES-CHIP	100 5% 1/16W	R3308	1-216-837-11	RES-CHIP	22K 5% 1/16W
R3249	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W	R3309	1-216-809-11	RES-CHIP	100 5% 1/16W
R3250	1-216-813-11	RES-CHIP	220 5% 1/16W	R3310	1-216-864-11	SHORT	0
R3251	1-216-805-11	RES-CHIP	47 5% 1/16W	R3311	1-216-864-11	SHORT	0
R3252	1-216-805-11	RES-CHIP	47 5% 1/16W				
R3253	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	< CRYSTAL >			
R3254	1-216-815-11	RES-CHIP	330 5% 1/16W	X3001	1-767-989-11	VIBRATOR, CERAMIC (14.318MHz)	
R3255	1-216-828-11	RES-CHIP	3.9K 5% 1/16W	X3002	1-781-282-11	VIBRATOR, CERAMIC (4MHz)	
R3257	1-216-809-11	RES-CHIP	100 5% 1/16W	X3003	1-767-179-31	VIBRATOR, CERAMIC (12MHz)	
R3258	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W	X3004	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)	
R3259	1-216-809-11	RES-CHIP	100 5% 1/16W	X3005	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)	
R3260	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	X3006	1-767-179-31	VIBRATOR, CERAMIC (12MHz)	
R3261	1-216-813-11	RES-CHIP	220 5% 1/16W	*****			
R3263	1-216-864-11	SHORT	0	* A-1299-626-A A BOARD, COMPLETE			
R3264	1-216-857-11	RES-CHIP	1M 5% 1/16W	*****			
R3265	1-216-809-11	RES-CHIP	100 5% 1/16W	* 4-032-770-81 HEAT SINK, V-OUT			
R3266	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	4-382-854-01 SCREW (M3X8), P, SW (+)			
R3267	1-216-815-11	RES-CHIP	330 5% 1/16W				
R3268	1-216-813-11	RES-CHIP	220 5% 1/16W	< CAPACITOR >			
R3269	1-216-821-11	RES-CHIP	1K 5% 1/16W	C1011	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3270	1-216-813-11	RES-CHIP	220 5% 1/16W	C1012	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3271	1-216-809-11	RES-CHIP	100 5% 1/16W	C1013	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3272	1-216-809-11	RES-CHIP	100 5% 1/16W	C1014	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3273	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	C1075	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3274	1-216-815-11	RES-CHIP	330 5% 1/16W	C1076	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3275	1-216-809-11	RES-CHIP	100 5% 1/16W	C1077	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3276	1-216-809-11	RES-CHIP	100 5% 1/16W	C1079	1-126-933-11	ELECT 100μF	20% 16V
R3277	1-216-809-11	RES-CHIP	100 5% 1/16W	C1080	1-126-967-11	ELECT 47μF	20% 50V
R3278	1-218-285-11	RES-CHIP	75 5% 1/16W	C1081	1-104-665-11	ELECT 100μF	20% 10V
R3279	1-218-285-11	RES-CHIP	75 5% 1/16W	C1082	1-126-964-11	ELECT 10μF	20% 50V
R3280	1-218-285-11	RES-CHIP	75 5% 1/16W	C1083	1-162-960-11	CERAMIC CHIP 220pF	10% 50V
R3281	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1086	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V
R3282	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1088	1-126-933-11	ELECT 100μF	20% 16V
R3283	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1092	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3284	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1093	1-126-964-11	ELECT 10μF	20% 50V
R3285	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1094	1-164-346-11	CERAMIC CHIP 1μF	16V
R3286	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1095	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V
R3287	1-216-817-11	RES-CHIP	470 5% 1/16W	C1096	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3288	1-216-817-11	RES-CHIP	470 5% 1/16W	C1099	1-165-176-11	CERAMIC CHIP 0.047μF	10% 16V
R3289	1-216-817-11	RES-CHIP	470 5% 1/16W	C1111	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3290	1-216-801-11	RES-CHIP	22 5% 1/16W	C1112	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3291	1-216-801-11	RES-CHIP	22 5% 1/16W	C1118	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3292	1-216-801-11	RES-CHIP	22 5% 1/16W	C1119	1-104-665-11	ELECT 100μF	20% 10V
R3293	1-216-814-11	RES-CHIP	270 5% 1/16W	C1120	1-126-933-11	ELECT 100μF	20% 16V
R3294	1-216-814-11	RES-CHIP	270 5% 1/16W	C1122	1-126-933-11	ELECT 100μF	20% 16V
R3295	1-216-814-11	RES-CHIP	270 5% 1/16W	C1123	1-162-966-11	CERAMIC CHIP 0.0022μF	10% 50V
R3296	1-216-845-11	RES-CHIP	100K 5% 1/16W	C1124	1-164-346-11	CERAMIC CHIP 1μF	16V
R3297	1-216-817-11	RES-CHIP	470 5% 1/16W	C1128	1-162-960-11	CERAMIC CHIP 220pF	10% 50V
R3298	1-216-809-11	RES-CHIP	100 5% 1/16W	C1129	1-165-176-11	CERAMIC CHIP 0.047μF	10% 16V
R3299	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	C1130	1-162-970-11	CERAMIC CHIP 0.01μF	10% 16V
R3300	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	C1132	1-126-935-11	ELECT 470μF	20% 16V
R3301	1-216-864-11	SHORT	0	C1133	1-126-964-11	ELECT 10μF	20% 50V
R3302	1-216-817-11	RES-CHIP	470 5% 1/16W				
R3303	1-216-864-11	SHORT	0				
R3306	1-216-821-11	RES-CHIP	1K 5% 1/16W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1134	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V	C1395	1-126-963-11	ELECT	4.7μF 20% 50V
C1137	1-126-964-11	ELECT	10μF 20% 50V	C1396	1-126-767-11	ELECT	1000μF 20% 16V
C1138	1-126-964-11	ELECT	10μF 20% 50V	C1397	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C1139	1-126-964-11	ELECT	10μF 20% 50V	C1911	1-126-933-11	ELECT	100μF 20% 16V
C1221	1-126-963-11	ELECT	4.7μF 20% 50V	C1914	1-126-933-11	ELECT	100μF 20% 16V
C1222	1-126-963-11	ELECT	4.7μF 20% 50V	C1915	1-126-964-11	ELECT	10μF 20% 50V
C1223	1-126-964-11	ELECT	10μF 20% 50V	C1920	1-109-889-11	ELECT	1μF 20% 50V
C1224	1-126-964-11	ELECT	10μF 20% 50V	C1921	1-126-926-11	ELECT	1000μF 20% 10V
C1225	1-104-665-11	ELECT	100μF 20% 25V	C1923	1-126-767-11	ELECT	1000μF 20% 16V
C1226	1-137-374-11	MYLAR	0.047μF 5% 50V	C1928	1-126-933-11	ELECT	100μF 20% 16V
C1227	1-137-374-11	MYLAR	0.047μF 5% 50V	C1931	1-104-665-11	ELECT	100μF 20% 25V
C1228	1-104-665-11	ELECT	100μF 20% 25V	C1932	1-104-665-11	ELECT	100μF 20% 25V
C1229	1-126-964-11	ELECT	10μF 20% 50V	C1933	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C1231	1-137-374-11	MYLAR	0.047μF 5% 50V	C1934	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C1232	1-137-374-11	MYLAR	0.047μF 5% 50V	C1940	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V
C1234	1-126-964-11	ELECT	10μF 20% 50V	C1941	1-126-947-11	ELECT	47μF 20% 25V
C1235	1-126-965-91	ELECT	22μF 20% 50V	C1942	1-126-947-11	ELECT	47μF 20% 25V
C1236	1-126-965-91	ELECT	22μF 20% 50V	C1943	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C1237	1-126-964-11	ELECT	10μF 20% 50V	C1944	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V
C1240	1-126-964-11	ELECT	10μF 20% 50V	C1952	1-104-665-11	ELECT	100μF 20% 25V
C1243	1-126-947-11	ELECT	47μF 20% 16V	C1953	1-104-665-11	ELECT	100μF 20% 25V
C1245	1-107-703-11	ELECT	220μF 20% 25V	C1956	1-109-889-11	ELECT	1μF 20% 50V
C1246	1-107-703-11	ELECT	220μF 20% 25V	C1957	1-126-964-11	ELECT	10μF 20% 50V
C1251	1-136-165-00	FILM	0.1μF 5% 50V	C1958	1-126-933-11	ELECT	100μF 20% 16V
C1252	1-136-165-00	FILM	0.1μF 5% 50V	C1960	1-126-916-11	ELECT	1000μF 20% 6.3V
C1253	1-136-165-00	FILM	0.1μF 5% 50V	C1962	1-162-970-11	CERAMIC CHIP	0.01μF 10% 16V
C1254	1-136-165-00	FILM	0.1μF 5% 50V	C1963	1-126-960-11	ELECT	1μF 20% 50V
C1255	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C1964	1-162-919-11	CERAMIC CHIP	22pF 5% 50V
C1256	1-164-156-11	CERAMIC CHIP	0.1μF 25V	C1965	1-162-966-11	CERAMIC CHIP	0.0022μF 10% 50V
C1257	1-128-548-11	ELECT	4700μF 20% 25V	C1966	1-126-947-11	ELECT	47μF 20% 16V
C1258	1-128-548-11	ELECT	4700μF 20% 25V	C1980	1-126-941-11	ELECT	470μF 20% 25V
C1260	1-126-942-61	ELECT	1000μF 20% 25V	C1982	1-109-889-11	ELECT	1μF 20% 50V
C1261	1-126-960-11	ELECT	1μF 20% 50V	C1990	1-126-926-11	ELECT	1000μF 20% 10V
C1354	1-126-947-11	ELECT	47μF 20% 25V	C1992	1-126-935-11	ELECT	470μF 20% 16V
C1355	1-126-947-11	ELECT	47μF 20% 25V	< CONNECTOR >			
C1356	1-126-964-11	ELECT	10μF 20% 50V	CN1901*	1-764-334-11	PLUG, CONNECTOR	11P
C1358	1-126-947-11	ELECT	47μF 20% 25V	CN1902	1-764-812-11	CONNECTOR, BOARD TO BOARD	11P
C1359	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	CN1903*	1-564-511-11	PLUG, CONNECTOR	8P
C1361	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	CN1904*	1-564-515-11	PLUG, CONNECTOR	12P
C1362	1-107-826-11	CERAMIC CHIP	0.1μF 10% 16V	CN1905*	1-564-512-11	PLUG, CONNECTOR	9P
C1365	1-126-933-11	ELECT	100μF 20% 16V	CN1907*	1-764-333-11	PLUG, CONNECTOR	10P
C1373	1-130-489-00	MYLAR	0.033μF 5% 50V	CN1908*	1-564-516-11	PLUG, CONNECTOR	13P
C1375	1-137-367-11	MYLAR	0.0033μF 5% 50V	CN1909*	1-564-510-11	PLUG, CONNECTOR	7P
C1382	1-137-150-11	MYLAR	0.01μF 5% 50V	CN1910	1-695-915-11	TAB (CONTACTILE)	
C1383	1-137-366-91	MYLAR	0.0022μF 5% 50V	CN1911	1-695-915-11	TAB (CONTACTILE)	
C1384	1-126-959-11	ELECT	0.47μF 20% 50V	CN1912	1-695-915-11	TAB (CONTACTILE)	
C1385	1-126-963-11	ELECT	4.7μF 20% 50V	CN1913	1-695-915-11	TAB (CONTACTILE)	
C1386	1-126-963-11	ELECT	4.7μF 20% 50V	CN1914*	1-564-512-11	PLUG, CONNECTOR	9P
C1387	1-126-960-11	ELECT	1μF 20% 50V	CN1915	1-564-511-11	PLUG, CONNECTOR	8P
C1388	1-165-176-11	CERAMIC CHIP	0.047μF 10% 16V	CN1917*	1-793-922-11	CONNECTOR, DIN (RECEPTACLE)	64P
C1389	1-126-964-11	ELECT	10μF 20% 50V	CN1918*	1-564-508-11	PLUG, CONNECTOR	5P
C1390	1-130-489-00	MYLAR	0.033μF 5% 50V	CN1919*	1-564-507-11	PLUG, CONNECTOR	4P
C1391	1-137-367-11	MYLAR	0.0033μF 5% 50V	CN1920	1-793-495-11	CONNECTOR, BOARD TO BOARD	50P
C1392	1-137-150-11	MYLAR	0.01μF 5% 50V	CN1921	1-793-495-11	CONNECTOR, BOARD TO BOARD	50P
C1393	1-137-366-91	MYLAR	0.0022μF 5% 50V				
C1394	1-126-959-11	ELECT	0.47μF 20% 50V				



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1113	1-216-845-11	RES-CHIP	100K 5% 1/16W	R1246	1-216-639-11	RES-CHIP	330 5% 1/10W
R1114	1-216-809-11	RES-CHIP	100 5% 1/16W	R1247	1-216-025-11	RES-CHIP	100 5% 1/10W
R1126	1-216-825-11	RES-CHIP	2.2K 5% 1/16W				
R1127	1-216-839-11	RES-CHIP	33K 5% 1/16W	R1249	1-216-049-11	RES-CHIP	1K 5% 1/10W
R1131	1-216-837-11	RES-CHIP	22K 5% 1/16W	R1250	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1133	1-218-686-11	METAL CHIP	560 0.5% 1/16W	R1252	1-216-821-11	RES-CHIP	1K 5% 1/16W
R1134	1-218-683-11	METAL CHIP	430 0.5% 1/16W	R1253	1-218-719-11	METAL CHIP	13K 0.5% 1/16W
R1135	1-216-809-11	RES-CHIP	100 5% 1/16W	R1254	1-240-067-21	RES-CHIP	470 5% 1/10W
R1136	1-216-821-11	RES-CHIP	1K 5% 1/16W	R1255	1-218-719-11	METAL CHIP	13K 0.5% 1/16W
R1137	1-216-833-11	RES-CHIP	10K 5% 1/16W	R1256	1-240-067-21	RES-CHIP	470 5% 1/10W
R1138	1-216-833-11	RES-CHIP	10K 5% 1/16W	R1257	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R1144	1-216-864-11	SHORT	0	R1258	1-216-833-11	RES-CHIP	10K 5% 1/16W
R1151	1-216-833-11	RES-CHIP	10K 5% 1/16W	R1262	1-218-867-11	RES-CHIP	6.8K 5% 1/16W
R1152	1-216-833-11	RES-CHIP	10K 5% 1/16W	R1263	1-216-295-91	SHORT	0
R1155	1-216-822-11	RES-CHIP	1.2K 5% 1/16W	R1265	1-216-833-11	RES-CHIP	10K 5% 1/16W
R1157	1-216-805-11	RES-CHIP	47 5% 1/16W	R1266	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1158	1-218-707-11	METAL CHIP	4.3K 0.5% 1/16W	R1268	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1194	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R1269	1-216-295-91	SHORT	0
R1202	1-216-837-11	RES-CHIP	22K 5% 1/16W	R1270	1-216-821-11	RES-CHIP	1K 5% 1/16W
R1206	1-216-619-11	RES-CHIP	47 5% 1/10W	R1271	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1207	1-216-619-11	RES-CHIP	47 5% 1/10W	R1272	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1208	1-240-067-21	RES-CHIP	470 5% 1/10W	R1273	1-216-357-00	METAL OXIDE	4.7 5% 1W
R1209	1-240-067-21	RES-CHIP	470 5% 1/10W	R1274	1-216-357-00	METAL OXIDE	4.7 5% 1W
R1211	1-218-776-11	RES-CHIP	1M 5% 1/10W	R1275	1-216-357-00	METAL OXIDE	4.7 5% 1W
R1212	1-218-776-11	RES-CHIP	1M 5% 1/10W	R1276	1-216-357-00	METAL OXIDE	4.7 5% 1W
R1213	1-240-090-21	RES-CHIP	39K 5% 1/10W	R1277	1-216-830-11	RES-CHIP	5.6K 5% 1/16W
R1214	1-240-090-21	RES-CHIP	39K 5% 1/10W	R1283	1-216-849-11	RES-CHIP	220K 5% 1/16W
R1216	1-240-091-21	RES-CHIP	47K 5% 1/10W	R1284	1-249-389-11	CARBON	4.7 5% 1/4W
R1217	1-240-091-21	RES-CHIP	47K 5% 1/10W	R1340	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1218	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R1341	1-218-727-11	METAL CHIP	30K 0.5% 1/16W
R1219	1-216-675-11	RES-CHIP	10K 5% 1/10W	R1343	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R1220	1-216-675-11	RES-CHIP	10K 5% 1/10W	R1344	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R1221	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R1355	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R1222	1-216-837-11	RES-CHIP	22K 5% 1/16W	R1358	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R1223	1-216-033-00	RES-CHIP	220 5% 1/10W	R1362	1-218-727-11	METAL CHIP	30K 0.5% 1/16W
R1224	1-216-675-11	RES-CHIP	10K 5% 1/10W	R1363	1-216-841-11	RES-CHIP	47K 5% 1/16W
R1225	1-216-033-00	RES-CHIP	220 5% 1/10W	R1364	1-216-839-11	RES-CHIP	33K 5% 1/16W
R1226	1-216-675-11	RES-CHIP	10K 5% 1/10W	R1367	1-216-837-11	RES-CHIP	22K 5% 1/16W
R1227	1-216-841-11	RES-CHIP	47K 5% 1/16W	R1368	1-216-837-11	RES-CHIP	22K 5% 1/16W
R1228	1-240-067-21	RES-CHIP	470 5% 1/10W	R1392	1-216-837-11	RES-CHIP	22K 5% 1/16W
R1229	1-240-067-21	RES-CHIP	470 5% 1/10W	R1393	1-216-857-11	RES-CHIP	1M 5% 1/16W
R1230	1-216-837-11	RES-CHIP	22K 5% 1/16W	R1395	1-216-830-11	RES-CHIP	5.6K 5% 1/16W
R1231	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1396	1-216-864-11	SHORT	0
R1232	1-216-845-11	RES-CHIP	100K 5% 1/16W	R1904	1-216-833-11	RES-CHIP	10K 5% 1/16W
R1233	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R1906	1-216-833-11	RES-CHIP	10K 5% 1/16W
R1234	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R1907	1-218-652-11	METAL CHIP	22 0.5% 1/16W
R1235	1-216-815-11	RES-CHIP	330 5% 1/16W	R1908	1-218-680-11	METAL CHIP	330 0.5% 1/16W
R1236	1-216-833-11	RES-CHIP	10K 5% 1/16W	R1918	1-218-722-11	METAL CHIP	18K 0.5% 1/16W
R1237	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R1923	1-218-742-11	METAL CHIP	120K 0.5% 1/16W
R1238	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R1924	1-218-718-11	METAL CHIP	12K 0.5% 1/16W
R1239	1-216-815-11	RES-CHIP	330 5% 1/16W	R1930	1-216-829-11	RES-CHIP	4.7K 5% 1/16W
R1240	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R1933	1-218-728-11	METAL CHIP	33K 0.5% 1/16W
R1241	1-216-075-00	RES-CHIP	12K 5% 1/10W	R1934	1-218-712-11	METAL CHIP	6.8K 0.5% 1/16W
R1243	1-216-639-11	RES-CHIP	330 5% 1/10W	R1937	1-218-726-11	METAL CHIP	27K 0.5% 1/16W
R1244	1-218-722-11	METAL CHIP	18K 0.5% 1/16W	R1938	1-218-718-11	METAL CHIP	12K 0.5% 1/16W
R1245	1-218-722-11	METAL CHIP	18K 0.5% 1/16W	R1941	1-218-724-11	METAL CHIP	22K 0.5% 1/16W
				R1942	1-218-724-11	METAL CHIP	22K 0.5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1945	1-218-716-11	METAL CHIP 10K	0.5% 1/16W	C9043	1-128-499-11	ELECT 220μF	20% 16V
R1947	1-218-716-11	METAL CHIP 10K	0.5% 1/16W	C9044	1-115-156-11	CERAMIC CHIP 1μF	10V
R1952	1-216-841-11	RES-CHIP 47K	5% 1/16W	C9501	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
R1963	1-218-738-11	METAL CHIP 82K	0.5% 1/16W	C9503	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V
R1964	1-218-718-11	METAL CHIP 12K	0.5% 1/16W	C9523	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
R1965	1-218-742-11	METAL CHIP 120K	0.5% 1/16W	C9524	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1966	1-216-829-11	RES-CHIP 4.7K	5% 1/16W	C9525	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1967	1-216-805-11	RES-CHIP 47	5% 1/16W	C9526	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1968	1-216-819-11	RES-CHIP 680	5% 1/16W	C9527	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1969	1-216-819-11	RES-CHIP 680	5% 1/16W	C9528	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1970	1-218-699-11	METAL CHIP 2K	0.5% 1/16W	C9530	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1971	1-216-821-11	RES-CHIP 1K	5% 1/16W	C9531	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1972	1-218-697-11	METAL CHIP 1.6K	0.5% 1/16W	C9532	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
R1973	1-218-685-11	METAL CHIP 510	0.5% 1/16W	C9533	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
R1976	1-216-821-11	RES-CHIP 1K	5% 1/16W	C9534	1-126-964-11	ELECT 10μF	20% 50V
R1977	1-218-742-11	METAL CHIP 120K	0.5% 1/16W	C9535	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
R1978	1-218-718-11	METAL CHIP 12K	0.5% 1/16W	C9536	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
R1979	1-218-722-11	METAL CHIP 18K	0.5% 1/16W	C9538	1-126-947-11	ELECT 47μF	20% 16V
R1983	1-218-724-11	METAL CHIP 22K	0.5% 1/16W	C9539	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
R1990	1-216-864-11	SHORT 0		C9540	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
< TUNER >				C9541	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
TU1001 8-598-430-60 TUNER, FSS BTF-FA401				C9542	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
TU1102 8-598-600-00 TUNER, FSS BTF-WA413				C9543	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
*****				C9546	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
* A-1306-613-A M BOARD, COMPLETE				C9547	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
*****				C9548	1-162-915-11	CERAMIC CHIP 10pF	0.5pF 50V
< CAPACITOR >				C9549	1-162-915-11	CERAMIC CHIP 10pF	0.5pF 50V
C9001	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	< CONNECTOR >			
C9002	1-126-964-11	ELECT 10μF	20% 50V	CN9001	1-815-870-11	CONNECTOR, BOARD TO BOARD 50P	
C9004	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	CN9501	1-815-870-11	CONNECTOR, BOARD TO BOARD 50P	
C9007	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V	< DIODE >			
C9011	1-162-919-11	CERAMIC CHIP 22pF	5% 50V	D9001	8-719-941-86	DIODE DAN202U	
C9012	1-162-920-11	CERAMIC CHIP 27pF	5% 50V	D9002	8-719-941-09	DIODE DAP202U	
C9013	1-115-156-11	CERAMIC CHIP 1μF	10V	D9003	8-719-988-61	DIODE 1SS355TE-17	
C9014	1-162-916-11	CERAMIC CHIP 12pF	5% 50V	D9004	8-719-941-86	DIODE DAN202U	
C9015	1-162-915-11	CERAMIC CHIP 10pF	0.5pF 50V	D9005	8-719-941-09	DIODE DAP202U	
C9021	1-126-964-11	ELECT 10μF	20% 50V	D9008	8-719-941-86	DIODE DAN202U	
C9022	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V	D9009	8-719-941-86	DIODE DAN202U	
C9025	1-115-467-11	CERAMIC CHIP 0.22μF	10% 10V	D9010	8-719-941-86	DIODE DAN202U	
C9029	1-126-947-11	ELECT 47μF	20% 16V	D9011	8-719-988-61	DIODE 1SS355TE-17	
C9030	1-126-947-11	ELECT 47μF	20% 16V	D9012	8-719-988-61	DIODE 1SS355TE-17	
C9031	1-162-915-11	CERAMIC CHIP 10pF	0.5pF 50V	D9013	8-719-988-61	DIODE 1SS355TE-17	
C9032	1-162-915-11	CERAMIC CHIP 10pF	0.5pF 50V	D9014	8-719-988-61	DIODE 1SS355TE-17	
C9035	1-128-499-11	ELECT 220μF	20% 16V	D9015	8-719-988-61	DIODE 1SS355TE-17	
C9036	1-126-947-11	ELECT 47μF	20% 16V	D9016	8-719-988-61	DIODE 1SS355TE-17	
C9037	1-126-964-11	ELECT 10μF	20% 50V	D9017	8-719-941-86	DIODE DAN202U	
C9038	1-126-947-11	ELECT 47μF	20% 16V	D9018	8-719-941-86	DIODE DAN202U	
C9039	1-164-156-11	CERAMIC CHIP 0.1μF	25V	D9019	8-719-988-61	DIODE 1SS355TE-17	
C9040	1-126-947-11	ELECT 47μF	20% 16V	D9501	8-719-988-61	DIODE 1SS355TE-17	
C9041	1-164-156-11	CERAMIC CHIP 0.1μF	25V	D9502	8-719-025-31	DIODE 02CZ5.6-TE85L	
C9042	1-128-499-11	ELECT 220μF	20% 16V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< FILTER >				Q9022	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL9001	1-233-736-21	FILTER, EMI		Q9023	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL9002	1-233-736-21	FILTER, EMI		Q9024	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
< IC >				Q9025	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC9001	8-759-349-11	IC PST9145NL		Q9026	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC9002	8-759-675-64	IC M24C08-MN6T(A)		Q9501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC9003	6-700-149-01	IC M24C04-MN6T(A)		Q9502	8-729-900-53	TRANSISTOR DTC114EK	
IC9004	6-800-559-01	IC M306V2EEFP-180		Q9503	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC9005	8-759-349-11	IC PST9145NL		Q9504	8-729-900-53	TRANSISTOR DTC114EK	
IC9502	6-800-560-01	IC MB94P918PF-G-143		Q9505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC9503	8-759-485-79	IC TC7SET08FU(TE85L)		Q9506	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC9504	6-700-149-01	IC M24C04-MN6T(A)		Q9507	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC9505	8-759-349-11	IC PST9145NL		Q9508	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC9506	8-759-009-06	IC MC14052BF		Q9509	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC9507	8-759-675-64	IC M24C08-MN6T(A)		Q9510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC9508	8-759-196-96	IC TC7SH08FU-TE85R		Q9511	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC9509	8-759-271-84	IC TC7SH02FU		Q9512	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC9510	8-759-196-97	IC TC7SH32FU-TE85R		Q9513	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC9511	8-759-271-86	IC TC7SH04FU		Q9514	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC9512	8-759-547-54	IC TC7SET00FU(TE85R)		Q9515	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC9513	8-759-547-54	IC TC7SET00FU(TE85R)		< RESISTOR >			
IC9514	8-759-485-79	IC TC7SET08FU(TE85L)		R9001	1-216-809-11	RES-CHIP	100 5% 1/16W
IC9515	8-759-485-79	IC TC7SET08FU(TE85L)		R9002	1-216-809-11	RES-CHIP	100 5% 1/16W
< COIL >				R9003	1-216-809-11	RES-CHIP	100 5% 1/16W
L9001	1-412-943-11	INDUCTOR	2.2μH	R9004	1-216-801-11	RES-CHIP	22 5% 1/16W
L9002	1-412-058-11	INDUCTOR	10μH	R9005	1-216-817-11	RES-CHIP	470 5% 1/16W
L9003	1-412-058-11	INDUCTOR	10μH	R9006	1-216-817-11	RES-CHIP	470 5% 1/16W
L9004	1-412-058-11	INDUCTOR	10μH	R9007	1-216-833-11	RES-CHIP	10K 5% 1/16W
L9501	1-412-003-21	INDUCTOR	5.6μH	R9008	1-216-817-11	RES-CHIP	470 5% 1/16W
L9502	1-412-058-11	INDUCTOR	10μH	R9009	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
< TRANSISTOR >				R9011	1-218-708-11	METAL CHIP	4.7K 0.5% 1/16W
Q9001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9012	1-216-817-11	RES-CHIP	470 5% 1/16W
Q9002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9013	1-216-817-11	RES-CHIP	470 5% 1/16W
Q9003	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9014	1-216-809-11	RES-CHIP	100 5% 1/16W
Q9004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9015	1-216-809-11	RES-CHIP	100 5% 1/16W
Q9005	8-729-027-23	TRANSISTOR DTA114EKA-T146		R9016	1-216-809-11	RES-CHIP	100 5% 1/16W
Q9006	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9017	1-216-809-11	RES-CHIP	100 5% 1/16W
Q9007	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9018	1-216-845-11	RES-CHIP	100K 5% 1/16W
Q9008	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9019	1-216-815-11	RES-CHIP	330 5% 1/16W
Q9009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9020	1-216-833-11	RES-CHIP	10K 5% 1/16W
Q9010	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9021	1-216-805-11	RES-CHIP	47 5% 1/16W
Q9011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9022	1-216-815-11	RES-CHIP	330 5% 1/16W
Q9012	1-801-806-11	TRANSISTOR DTC144EKA		R9023	1-216-809-11	RES-CHIP	100 5% 1/16W
Q9013	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9025	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
Q9014	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9026	1-216-827-11	RES-CHIP	3.3K 5% 1/16W
Q9015	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R9027	1-216-815-11	RES-CHIP	330 5% 1/16W
Q9016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9029	1-216-805-11	RES-CHIP	47 5% 1/16W
Q9017	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9030	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
Q9018	1-801-806-11	TRANSISTOR DTC144EKA		R9031	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
Q9019	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R9032	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
				R9033	1-216-809-11	RES-CHIP	100 5% 1/16W
				R9034	1-216-841-11	RES-CHIP	47K 5% 1/16W
				R9036	1-216-864-11	SHORT	0
				R9037	1-216-823-11	RES-CHIP	1.5K 5% 1/16W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R9038	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	R9101	1-216-845-11 RES-CHIP 100K 5% 1/16W
R9039	1-216-809-11	RES-CHIP	100	5%	1/16W	R9102	1-216-849-11 RES-CHIP 220K 5% 1/16W
R9042	1-216-809-11	RES-CHIP	100	5%	1/16W	R9104	1-216-864-11 SHORT 0
R9043	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R9106	1-216-845-11 RES-CHIP 100K 5% 1/16W
R9044	1-218-867-11	RES-CHIP	6.8K	5%	1/16W	R9107	1-216-829-11 RES-CHIP 4.7K 5% 1/16W
R9045	1-216-835-11	RES-CHIP	15K	5%	1/16W	R9108	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9046	1-216-813-11	RES-CHIP	220	5%	1/16W	R9109	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9047	1-216-833-11	RES-CHIP	10K	5%	1/16W	R9110	1-216-829-11 RES-CHIP 4.7K 5% 1/16W
R9048	1-216-833-11	RES-CHIP	10K	5%	1/16W	R9113	1-216-809-11 RES-CHIP 100 5% 1/16W
R9051	1-216-809-11	RES-CHIP	100	5%	1/16W	R9114	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9052	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9115	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9053	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9116	1-216-825-11 RES-CHIP 2.2K 5% 1/16W
R9054	1-216-809-11	RES-CHIP	100	5%	1/16W	R9117	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9055	1-216-841-11	RES-CHIP	47K	5%	1/16W	R9118	1-216-841-11 RES-CHIP 47K 5% 1/16W
R9057	1-216-809-11	RES-CHIP	100	5%	1/16W	R9119	1-216-809-11 RES-CHIP 100 5% 1/16W
R9058	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R9122	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9059	1-216-845-11	RES-CHIP	100K	5%	1/16W	R9123	1-216-809-11 RES-CHIP 100 5% 1/16W
R9060	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9124	1-216-809-11 RES-CHIP 100 5% 1/16W
R9061	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9125	1-216-809-11 RES-CHIP 100 5% 1/16W
R9062	1-216-809-11	RES-CHIP	100	5%	1/16W	R9126	1-216-817-11 RES-CHIP 470 5% 1/16W
R9063	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9127	1-216-817-11 RES-CHIP 470 5% 1/16W
R9064	1-216-809-11	RES-CHIP	100	5%	1/16W	R9128	1-216-809-11 RES-CHIP 100 5% 1/16W
R9065	1-216-809-11	RES-CHIP	100	5%	1/16W	R9129	1-216-817-11 RES-CHIP 470 5% 1/16W
R9066	1-216-841-11	RES-CHIP	47K	5%	1/16W	R9130	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9067	1-216-845-11	RES-CHIP	100K	5%	1/16W	R9131	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9068	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9132	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9069	1-216-809-11	RES-CHIP	100	5%	1/16W	R9133	1-216-845-11 RES-CHIP 100K 5% 1/16W
R9070	1-216-809-11	RES-CHIP	100	5%	1/16W	R9134	1-216-817-11 RES-CHIP 470 5% 1/16W
R9071	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9502	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9072	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9503	1-216-829-11 RES-CHIP 4.7K 5% 1/16W
R9073	1-216-815-11	RES-CHIP	330	5%	1/16W	R9504	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9074	1-216-805-11	RES-CHIP	47	5%	1/16W	R9505	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9075	1-216-815-11	RES-CHIP	330	5%	1/16W	R9506	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9076	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9507	1-216-845-11 RES-CHIP 100K 5% 1/16W
R9077	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9508	1-216-809-11 RES-CHIP 100 5% 1/16W
R9078	1-216-833-11	RES-CHIP	10K	5%	1/16W	R9509	1-216-809-11 RES-CHIP 100 5% 1/16W
R9079	1-216-845-11	RES-CHIP	100K	5%	1/16W	R9511	1-216-841-11 RES-CHIP 47K 5% 1/16W
R9080	1-216-809-11	RES-CHIP	100	5%	1/16W	R9512	1-216-841-11 RES-CHIP 47K 5% 1/16W
R9081	1-216-809-11	RES-CHIP	100	5%	1/16W	R9513	1-216-845-11 RES-CHIP 100K 5% 1/16W
R9082	1-216-809-11	RES-CHIP	100	5%	1/16W	R9514	1-216-841-11 RES-CHIP 47K 5% 1/16W
R9083	1-216-809-11	RES-CHIP	100	5%	1/16W	R9515	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9085	1-216-809-11	RES-CHIP	100	5%	1/16W	R9516	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9086	1-216-809-11	RES-CHIP	100	5%	1/16W	R9517	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9087	1-216-809-11	RES-CHIP	100	5%	1/16W	R9518	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9088	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9519	1-216-833-11 RES-CHIP 10K 5% 1/16W
R9089	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9520	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9090	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9521	1-216-821-11 RES-CHIP 1K 5% 1/16W
R9091	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9522	1-216-837-11 RES-CHIP 22K 5% 1/16W
R9092	1-216-809-11	RES-CHIP	100	5%	1/16W	R9523	1-216-809-11 RES-CHIP 100 5% 1/16W
R9093	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9525	1-216-809-11 RES-CHIP 100 5% 1/16W
R9094	1-216-833-11	RES-CHIP	10K	5%	1/16W	R9526	1-216-809-11 RES-CHIP 100 5% 1/16W
R9095	1-216-821-11	RES-CHIP	1K	5%	1/16W	R9527	1-216-809-11 RES-CHIP 100 5% 1/16W
R9096	1-216-809-11	RES-CHIP	100	5%	1/16W	R9528	1-216-809-11 RES-CHIP 100 5% 1/16W
R9097	1-216-845-11	RES-CHIP	100K	5%	1/16W	R9529	1-216-809-11 RES-CHIP 100 5% 1/16W
R9098	1-216-837-11	RES-CHIP	22K	5%	1/16W	R9531	1-216-809-11 RES-CHIP 100 5% 1/16W
R9099	1-216-837-11	RES-CHIP	22K	5%	1/16W	R9532	1-216-821-11 RES-CHIP 1K 5% 1/16W

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par un tramé
et une marque Δ sont critiques pour la
sécurité. Ne les remplacer que par une
pièce portant le numéro spécifié.

KF-60DX100

RM-Y910



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R9533	1-216-809-11	RES-CHIP	100 5% 1/16W	R9595	1-216-821-11	RES-CHIP	1K 5% 1/16W
R9534	1-216-809-11	RES-CHIP	100 5% 1/16W	R9596	1-216-841-11	RES-CHIP	47K 5% 1/16W
R9535	1-216-809-11	RES-CHIP	100 5% 1/16W	R9598	1-216-813-11	RES-CHIP	220 5% 1/16W
R9536	1-216-809-11	RES-CHIP	100 5% 1/16W	R9600	1-216-809-11	RES-CHIP	100 5% 1/16W
R9537	1-216-821-11	RES-CHIP	1K 5% 1/16W	R9601	1-216-817-11	RES-CHIP	470 5% 1/16W
R9538	1-216-809-11	RES-CHIP	100 5% 1/16W	R9602	1-216-817-11	RES-CHIP	470 5% 1/16W
R9539	1-216-813-11	RES-CHIP	220 5% 1/16W	R9603	1-216-817-11	RES-CHIP	470 5% 1/16W
R9540	1-216-833-11	RES-CHIP	10K 5% 1/16W	R9604	1-216-809-11	RES-CHIP	100 5% 1/16W
R9541	1-216-809-11	RES-CHIP	100 5% 1/16W	R9605	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R9542	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R9606	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R9543	1-216-833-11	RES-CHIP	10K 5% 1/16W	R9607	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R9544	1-216-833-11	RES-CHIP	10K 5% 1/16W	R9608	1-216-833-11	RES-CHIP	10K 5% 1/16W
R9545	1-216-833-11	RES-CHIP	10K 5% 1/16W	R9609	1-216-817-11	RES-CHIP	470 5% 1/16W
R9546	1-216-841-11	RES-CHIP	47K 5% 1/16W	R9613	1-216-833-11	RES-CHIP	10K 5% 1/16W
R9547	1-216-864-11	SHORT	0	R9614	1-216-809-11	RES-CHIP	100 5% 1/16W
R9548	1-216-833-11	RES-CHIP	10K 5% 1/16W	R9615	1-216-845-11	RES-CHIP	100K 5% 1/16W
R9549	1-216-809-11	RES-CHIP	100 5% 1/16W	R9616	1-216-809-11	RES-CHIP	100 5% 1/16W
R9550	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R9617	1-216-809-11	RES-CHIP	100 5% 1/16W
R9551	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R9618	1-216-809-11	RES-CHIP	100 5% 1/16W
R9552	1-216-809-11	RES-CHIP	100 5% 1/16W	R9619	1-216-809-11	RES-CHIP	100 5% 1/16W
R9553	1-216-821-11	RES-CHIP	1K 5% 1/16W	R9620	1-216-864-11	SHORT	0
R9554	1-216-821-11	RES-CHIP	1K 5% 1/16W	R9623	1-216-809-11	RES-CHIP	100 5% 1/16W
R9555	1-216-809-11	RES-CHIP	100 5% 1/16W	R9624	1-216-809-11	RES-CHIP	100 5% 1/16W
R9556	1-216-821-11	RES-CHIP	1K 5% 1/16W	R9625	1-216-821-11	RES-CHIP	1K 5% 1/16W
R9557	1-216-809-11	RES-CHIP	100 5% 1/16W	R9626	1-216-821-11	RES-CHIP	1K 5% 1/16W
R9558	1-216-809-11	RES-CHIP	100 5% 1/16W	R9627	1-216-821-11	RES-CHIP	1K 5% 1/16W
R9559	1-216-864-11	SHORT	0	R9628	1-216-821-11	RES-CHIP	1K 5% 1/16W
R9560	1-216-864-11	SHORT	0	R9629	1-216-821-11	RES-CHIP	1K 5% 1/16W
R9561	1-216-809-11	RES-CHIP	100 5% 1/16W	< CRYSTAL >			
R9563	1-216-809-11	RES-CHIP	100 5% 1/16W	X9002	1-579-358-11	VIBLATOR, CRYSTAL (10MHz)	
R9564	1-216-833-11	RES-CHIP	10K 5% 1/16W	X9501	1-760-014-11	VIBRATOR, CERAMIC (20MHz)	
R9565	1-216-864-11	SHORT	0	*****			
R9567	1-216-864-11	SHORT	0	* A-1316-594-A G BOARD, COMPLETE			
R9568	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	*****			
R9569	1-216-805-11	RES-CHIP	47 5% 1/16W	* 4-374-846-11 COVER, CAPACITOR, CAP TYPE			
R9571	1-216-805-11	RES-CHIP	47 5% 1/16W	4-382-854-01 SCREW (M3X8), P, SW (+)			
R9574	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	* 7-322-065-48 RUBBER, SILICONE RTV (KE-3490)			
R9575	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	< CAPACITOR >			
R9576	1-216-827-11	RES-CHIP	3.3K 5% 1/16W	C1602	1-163-005-91	CERAMIC CHIP	470pF 10% 50V
R9577	1-216-833-11	RES-CHIP	10K 5% 1/16W	C1603	1-107-679-91	ELECT	10μF 20% 450V
R9579	1-216-809-11	RES-CHIP	100 5% 1/16W	C1604	1-161-830-51	CERAMIC	0.0047μF 99% 500V
R9580	1-216-809-11	RES-CHIP	100 5% 1/16W	C1605	1-161-830-51	CERAMIC	0.0047μF 99% 500V
R9581	1-216-809-11	RES-CHIP	100 5% 1/16W	C1606	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V
R9583	1-216-809-11	RES-CHIP	100 5% 1/16W	C1607	1-161-830-51	CERAMIC	0.0047μF 99% 500V
R9584	1-216-809-11	RES-CHIP	100 5% 1/16W	C1608	1-161-830-51	CERAMIC	0.0047μF 99% 500V
R9585	1-216-864-11	SHORT	0	C1609	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
R9586	1-216-809-11	RES-CHIP	100 5% 1/16W	C1610	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V
R9587	1-216-864-11	SHORT	0	C1611	1-137-750-11	ELECT	1500μF 20% 250V
R9588	1-216-817-11	RES-CHIP	470 5% 1/16W	C1612	1-137-750-11	ELECT	1500μF 20% 250V
R9589	1-216-805-11	RES-CHIP	47 5% 1/16W	C1613	1-126-964-11	ELECT	10μF 20% 50V
R9590	1-216-864-11	SHORT	0	C1614	1-126-967-11	ELECT	47μF 20% 50V
R9591	1-216-864-11	SHORT	0	C1615	1-126-948-11	ELECT	100μF 20% 35V
R9592	1-216-805-11	RES-CHIP	47 5% 1/16W				
R9593	1-216-837-11	RES-CHIP	22K 5% 1/16W				
R9594	1-216-813-11	RES-CHIP	220 5% 1/16W				

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RM-Y910



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1616	1-137-605-11	MYLAR	0.01μF 10% 250V	< CONNECTOR >			
C1617	1-126-965-91	ELECT	22μF 20% 50V	CN1601	1-580-843-11	PIN, CONNECTOR (POWER)	
C1618	1-136-165-00	FILM	0.1μF 5% 50V	CN1602*	1-691-960-21	PIN, CONNECTOR (PC BOARD) 3P	
C1620	1-126-960-11	ELECT	1μF 20% 50V	CN1603*	1-564-511-61	PLUG, CONNECTOR 8P	
C1621	1-126-940-11	ELECT	330μF 20% 25V	CN1604*	1-580-838-11	PIN, CONNECTOR (PC BOARD) 4P	
C1622	1-126-961-11	ELECT	2.2μF 20% 50V	CN1605*	1-564-508-11	PLUG, CONNECTOR 5P	
C1623	1-136-479-11	FILM	0.001μF 2% 50V	CN1606*	1-564-510-11	PLUG, CONNECTOR 7P	
C1624	1-126-962-11	ELECT	3.3μF 20% 50V	CN1607*	1-564-506-11	PLUG, CONNECTOR 3P	
C1625	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	CN1608	1-695-915-11	TAB (CONTACTILE)	
C1627	1-125-969-91	CERAMIC	680pF 10% 1KV	CN1609	1-695-915-11	TAB (CONTACTILE)	
C1628	1-125-969-91	CERAMIC	680pF 10% 1KV	CN1610	1-695-915-11	TAB (CONTACTILE)	
C1629	1-135-946-81	FILM	47000pF 3% 800V	CN1611	1-695-915-11	TAB (CONTACTILE)	
C1630	1-126-939-11	ELECT	10000μF 20% 16V	CN1613*	1-564-512-11	PLUG, CONNECTOR 9P	
C1631	1-126-942-61	ELECT	1000μF 20% 25V	CN1614*	1-564-506-11	PLUG, CONNECTOR 3P	
C1632	1-126-964-11	ELECT	10μF 20% 50V	CN1616*	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
C1633	1-126-947-11	ELECT	47μF 20% 25V	CN1617*	1-564-506-11	PLUG, CONNECTOR 3P	
C1634	1-128-548-11	ELECT	4700μF 20% 25V	< DIODE >			
C1635	1-128-548-11	ELECT	4700μF 20% 25V	D1601 Δ	8-719-077-76	DIODE D2SB60A-F04	
C1636	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1602 Δ	8-719-022-99	DIODE D6SB60L	
C1637	1-126-929-11	ELECT	4700μF 20% 10V	D1603	8-719-106-89	DIODE RD15M-T1B2	
C1638	1-128-546-11	ELECT	10000μF 20% 10V	D1604	8-719-404-50	DIODE MA111-TX	
C1639	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1605	8-719-948-45	DIODE ERA22-08	
C1640	1-126-947-11	ELECT	47μF 20% 25V	D1606	8-719-106-17	DIODE RD6.8M-B2	
C1641	1-126-947-11	ELECT	47μF 20% 25V	D1607	8-719-979-64	DIODE UF4005PKG23	
C1642	1-126-964-11	ELECT	10μF 20% 50V	D1608	8-719-060-90	DIODE S2L60F	
C1643	1-126-947-11	ELECT	47μF 20% 25V	D1609	8-719-063-73	DIODE D1NL20U-TR	
C1644	1-126-947-11	ELECT	47μF 20% 25V	D1610	8-719-510-48	DIODE D1N20R	
C1645	1-126-947-11	ELECT	47μF 20% 25V	D1612	8-719-060-90	DIODE S2L60F	
C1646	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1613	8-719-510-02	DIODE D1NS4	
C1647	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1614	8-719-510-02	DIODE D1NS4	
C1648	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1616	8-719-510-02	DIODE D1NS4	
C1649	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1617	8-719-510-02	DIODE D1NS4	
C1650	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1618	8-719-404-50	DIODE MA111-TX	
C1651	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D1619	8-719-105-91	DIODE RD5.6M-B2	
C1652	1-126-964-11	ELECT	10μF 20% 50V	D1620	8-719-055-40	DIODE FCQ30A04	
C1653	1-126-967-11	ELECT	47μF 20% 50V	D1621	8-719-018-84	DIODE D2S6M	
C1654	1-126-947-11	ELECT	47μF 20% 25V	D1623	8-719-055-40	DIODE FCQ30A04	
C1655	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V	D1624	8-719-510-09	DIODE D10SC6M	
C1656	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V	D1625	8-719-988-31	DIODE D10SC6MR	
C1657	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V	D1626	8-719-510-12	DIODE D10SC4M	
C1658	1-163-009-91	CERAMIC CHIP	0.001μF 10% 50V	D1629	8-719-404-50	DIODE MA111-TX	
C1659	1-137-194-81	FILM	0.47μF 5% 50V	D1630	8-719-404-50	DIODE MA111-TX	
C1660 Δ	1-104-708-51	MYLAR	0.47μF 20% 250V	D1631	8-719-404-50	DIODE MA111-TX	
C1661 Δ	1-119-888-51	CERAMIC	2200pF 20% 250V	D1632	1-216-295-91	SHORT 0	
C1662 Δ	1-119-888-51	CERAMIC	2200pF 20% 250V	D1633	8-719-068-00	DIODE ERC04-06SE	
C1664 Δ	1-107-533-51	MYLAR	1μF 20% 250V	D1634	8-719-068-00	DIODE ERC04-06SE	
C1666	1-109-843-11	CERAMIC	33pF 5% 2KV	D1635	8-719-060-90	DIODE S2L60F	
C1667	1-109-843-11	CERAMIC	33pF 5% 2KV	D1636	8-719-060-90	DIODE S2L60F	
C1668	1-109-843-11	CERAMIC	33pF 5% 2KV	D1638	8-719-404-50	DIODE MA111-TX	
C1669	1-109-843-11	CERAMIC	33pF 5% 2KV	< FUSE >			
C1670	1-125-497-11	ELECT(BLOCK)	100μF 20% 400V	F1601 Δ	1-576-193-11	FUSE (6.3A/125V)	
C1671	1-125-497-11	ELECT(BLOCK)	100μF 20% 400V				
C1672	1-161-830-00	CERAMIC	0.0047μF 500V				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< FERRITE BEAD >				R1607	1-249-417-11	CARBON 1K	5% 1/4W
FB1601	1-410-397-21	FERRITE 1.1μH		R1608	1-216-073-91	RES-CHIP 10K	5% 1/10W
FB1602	1-410-397-21	FERRITE 1.1μH		R1609	1-216-041-00	RES-CHIP 470	5% 1/10W
FB1603	1-410-397-21	FERRITE 1.1μH		R1610	1-260-131-11	CARBON 470K	5% 1/2W
FB1604	1-410-397-21	FERRITE 1.1μH		R1611	1-260-131-11	CARBON 470K	5% 1/2W
FB1605	1-410-397-21	FERRITE 1.1μH		R1612	1-215-485-00	METAL 470K	1% 1/4W
FB1606	1-410-397-21	FERRITE 1.1μH		R1613 Δ	1-220-778-81	FUSIBLE 0.1	10% 1/2W
< FUSE HOLDER >				R1616	1-249-393-11	CARBON 10	5% 1/4W
FH1601	1-533-223-11	HOLDER, FUSE		R1617 Δ	1-249-377-91	CARBON 0.47	5% 1/4W
FH1602	1-533-223-11	HOLDER, FUSE		R1618 Δ	1-220-778-81	FUSIBLE 0.1	10% 1/2W
< IC >				R1619 Δ	1-220-778-81	FUSIBLE 0.1	10% 1/2W
IC1601	8-759-670-30	IC MCZ3001D		R1620	1-216-073-91	RES-CHIP 10K	5% 1/10W
IC1602	8-759-198-31	IC μPC1093J-1-T		R1621	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
< COIL >				R1622	1-216-073-91	RES-CHIP 10K	5% 1/10W
L1601	1-412-525-31	INDUCTOR 10μH		R1623	1-216-049-11	RES-CHIP 1K	5% 1/10W
L1604	1-412-525-31	INDUCTOR 10μH		R1624	1-215-481-00	METAL 330K	1% 1/4W
L1606	1-412-525-31	INDUCTOR 10μH		R1625	1-215-481-00	METAL 330K	1% 1/4W
L1607	1-412-525-31	INDUCTOR 10μH		R1626	1-215-481-00	METAL 330K	1% 1/4W
L1608	1-412-525-31	INDUCTOR 10μH		R1627	1-215-859-00	METAL OXIDE 22	5% 1W
L1609	1-406-659-11	INDUCTOR 10μH		R1628	1-216-679-11	METAL CHIP 15K	0.5% 1/10W
L1610	1-406-971-21	INDUCTOR 10μH		R1629	1-216-674-11	METAL CHIP 9.1K	0.5% 1/10W
L1612	1-406-659-11	INDUCTOR 10μH		R1630	1-216-073-91	RES-CHIP 10K	5% 1/10W
L1616	1-406-984-21	INDUCTOR 1.5mH		R1631	1-216-073-91	RES-CHIP 10K	5% 1/10W
< PHOTO COUPLER >				R1632	1-249-393-11	CARBON 10	5% 1/4W
PH1601 Δ	8-749-010-65	PHOTO COUPLER PC123FY2		R1633	1-216-073-91	RES-CHIP 10K	5% 1/10W
< IC LINK >				R1634	1-249-393-11	CARBON 10	5% 1/4W
PS1601 Δ	1-576-390-91	LINK, IC (2.5A)		R1635	1-216-073-91	RES-CHIP 10K	5% 1/10W
PS1602 Δ	1-576-390-91	LINK, IC (2.5A)		R1638	1-202-965-11	METAL 0.02	10% 2W
< TRANSISTOR >				R1640	1-216-350-11	METAL OXIDE 1.2	5% 1W
Q1601	8-729-046-40	TRANSISTOR 2SK2663		R1641	1-216-049-11	RES-CHIP 1K	5% 1/10W
Q1602	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R1642	1-216-051-00	RES-CHIP 1.2K	5% 1/10W
Q1603	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R1643	1-216-659-11	METAL CHIP 2.2K	0.5% 1/10W
Q1604	8-729-216-22	TRANSISTOR 2SA1162-G		R1644	1-216-025-11	RES-CHIP 100	5% 1/10W
Q1605	8-729-422-33	TRANSISTOR 2SD601A-Q-TX		R1645	1-216-017-91	RES-CHIP 47	5% 1/10W
Q1606	8-729-052-32	TRANSISTOR IRFIB7N50A		R1646	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
Q1607	8-729-052-32	TRANSISTOR IRFIB7N50A		R1647	1-216-041-00	RES-CHIP 470	5% 1/10W
< RESISTOR >				R1648	1-216-089-91	RES-CHIP 47K	5% 1/10W
R1601	1-260-302-51	CARBON 6.8	5% 1/2W	R1649	1-216-049-11	RES-CHIP 1K	5% 1/10W
R1603	1-216-045-00	RES-CHIP 680	5% 1/10W	R1650	1-216-658-11	METAL CHIP 2K	0.5% 1/10W
R1604	1-240-205-91	CARBON 22M	5% 1/2W	R1651 Δ	1-240-303-11	CMT-MELF 0.22	5% 10W
R1605	1-216-009-91	RES-CHIP 22	5% 1/10W	R1652 Δ	1-240-303-11	CMT-MELF 0.22	5% 10W
R1606	1-249-389-11	CARBON 4.7	5% 1/4W	R1653 Δ	1-202-880-91	SOLID 330K	20% 1/2W
< RELAY >				R1654 Δ	1-249-377-91	CARBON 0.47	5% 1/4W
				R1655 Δ	1-249-377-91	CARBON 0.47	5% 1/4W
				R1656	1-215-904-11	METAL OXIDE 100K	5% 2W
				R1657	1-215-904-11	METAL OXIDE 100K	5% 2W
				R1659	1-216-295-91	SHORT 0	
				R1662 Δ	1-218-265-21	METAL 8.2M	5% 1W
				R1664	1-216-295-91	SHORT 0	
				R1675	1-216-049-11	RES-CHIP 1K	5% 1/10W
				RY1601 Δ	1-755-388-11	RELAY (AC POWER)	

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RM-Y910



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
< TRANSFORMER >				C4502	1-164-156-11	CERAMIC CHIP 0.1 μ F	25V
T1601 Δ 1-431-852-11 TRANSFORMER, CONVERTER (SRT)				C4503	1-162-974-11	CERAMIC CHIP 0.01 μ F	50V
T1603 Δ 1-435-512-11 TRANSFORMER, CONVERTER (PIT)				C4504	1-126-964-11	ELECT 10 μ F	20% 50V
T1605 Δ 1-433-900-11 TRANSFORMER, LINE FILTER				C4505	1-162-974-11	CERAMIC CHIP 0.01 μ F	50V
T1606 Δ 1-433-900-11 TRANSFORMER, LINE FILTER				< CONNECTOR >			
< THERMISTOR >				CN4502*	1-564-524-11	PLUG, CONNECTOR 9P	
TH1601 1-803-586-41 THERMISTOR				CN4503*	1-564-519-11	PLUG, CONNECTOR 4P	
< VARISTOR >				CN4504	1-695-915-11	TAB (CONTACTILE)	
VD1601 Δ 1-801-074-51 VARISTOR ERZV10D271				< DIODE >			
*****				D4503	8-719-053-43	DIODE SLR-325VCT31 (STEREO)	
* A-1377-051-A H2 BOARD, COMPLETE				D4504	8-719-053-43	DIODE SLR-325VCT31	
*****				(TIMER/STAND BY)			
< CONNECTOR >				D4510	8-719-053-43	DIODE SLR-325VCT31 (LAMP)	
CN4401*1-564-506-11 PLUG, CONNECTOR 3P				< IC >			
< RESISTOR >				IC4501	8-742-129-00	HYB IC SBX1971-51P	
R4401	1-218-684-11	METAL CHIP	470 0.5% 1/16W	< TRANSISTOR >			
R4402	1-218-684-11	METAL CHIP	470 0.5% 1/16W	Q4503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R4403	1-218-684-11	METAL CHIP	470 0.5% 1/16W	Q4508	1-801-806-11	TRANSISTOR DTC144EKA	
R4404	1-218-684-11	METAL CHIP	470 0.5% 1/16W	Q4509	1-801-806-11	TRANSISTOR DTC144EKA	
R4405	1-218-688-11	METAL CHIP	680 0.5% 1/16W	< RESISTOR >			
R4406	1-218-688-11	METAL CHIP	680 0.5% 1/16W	R4501	1-216-833-11	RES-CHIP 10K	5% 1/16W
R4407	1-218-692-11	METAL CHIP	1K 0.5% 1/16W	R4502	1-216-813-11	RES-CHIP 220	5% 1/16W
R4408	1-218-696-11	METAL CHIP	1.5K 0.5% 1/16W	R4504	1-216-805-11	RES-CHIP 47	5% 1/16W
R4409	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W	R4506	1-216-833-11	RES-CHIP 10K	5% 1/16W
R4410	1-218-704-11	METAL CHIP	3.3K 0.5% 1/16W	R4507	1-216-837-11	RES-CHIP 22K	5% 1/16W
< SWITCH >				R4509	1-216-813-11	RES-CHIP 220	5% 1/16W
S4401	1-692-431-21	SWITCH, TACTILE (VOLUME -)		R4512	1-216-815-11	RES-CHIP 330	5% 1/16W
S4402	1-692-431-21	SWITCH, TACTILE (VOLUME +)		R4513	1-216-833-11	RES-CHIP 10K	5% 1/16W
S4403	1-692-431-21	SWITCH, TACTILE (CHANNEL -)		R4519	1-216-864-11	SHORT 0	
S4404	1-692-431-21	SWITCH, TACTILE (CHANNEL +)		R4520	1-216-864-11	SHORT 0	
S4405	1-692-431-21	SWITCH, TACTILE (TV/VIDEO)		< SWITCH >			
S4406	1-692-431-21	SWITCH, TACTILE (SELECT)		S4501 Δ	1-572-198-11	SWITCH, KEYBOARD (POWER)	
S4407	1-692-431-21	SWITCH, TACTILE (RIGHT)		*****			
S4408	1-762-837-11	SWITCH, TACTILE (UP/DOWN)		* A-1377-053-A H1 BOARD, COMPLETE			
S4410	1-692-431-21	SWITCH, TACTILE (LEFT)		*****			
S4411	1-692-431-21	SWITCH, TACTILE (MENU)		< CAPACITOR >			
*****				C4305	1-162-968-11	CERAMIC CHIP 0.0047 μ F	10% 50V
* A-1377-052-A H3 BOARD, COMPLETE				C4307	1-162-968-11	CERAMIC CHIP 0.0047 μ F	10% 50V
*****				C4309	1-162-927-11	CERAMIC CHIP 100pF	5% 50V
< CAPACITOR >				C4310	1-162-970-11	CERAMIC CHIP 0.01 μ F	10% 25V
C4501	1-162-974-11	CERAMIC CHIP 0.01 μ F	50V	C4311	1-126-959-11	ELECT 0.47 μ F	20% 50V
				C4312	1-126-964-11	ELECT 10 μ F	20% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C4313	1-126-964-11	ELECT	10μF 20% 50V	C2007	1-126-964-11	ELECT	10μF 20% 50V
C4314	1-126-959-11	ELECT	0.47μF 20% 50V	C2008	1-126-964-11	ELECT	10μF 20% 50V
< CONNECTOR >				C2012	1-126-964-11	ELECT	10μF 20% 50V
CN4303	1-564-593-11	PLUG, CONNECTOR 14P		C2013	1-126-964-11	ELECT	10μF 20% 50V
< DIODE >				C2014	1-126-960-11	ELECT	1μF 20% 50V
D4301	8-719-016-73	DIODE STZ6.8T		C2015	1-126-960-11	ELECT	1μF 20% 50V
D4302	8-719-016-73	DIODE STZ6.8T		C2016	1-126-964-11	ELECT	10μF 20% 50V
D4303	8-719-016-73	DIODE STZ6.8T		C2017	1-126-964-11	ELECT	10μF 20% 50V
D4304	8-719-016-73	DIODE STZ6.8T		C2018	1-126-960-11	ELECT	1μF 20% 50V
D4305	8-719-016-73	DIODE STZ6.8T		C2019	1-126-964-11	ELECT	10μF 20% 50V
D4306	8-719-016-73	DIODE STZ6.8T		C2020	1-126-964-11	ELECT	10μF 20% 50V
< JACK >				C2021	1-126-960-11	ELECT	1μF 20% 50V
J4301	1-750-515-11	TERMINAL BLOCK, S 3P (VIDEO2 IN)		C2022	1-126-960-11	ELECT	1μF 20% 50V
< RESISTOR >				C2023	1-126-964-11	ELECT	10μF 20% 50V
R4306	1-218-285-11	RES-CHIP	75 5% 1/16W	C2024	1-126-964-11	ELECT	10μF 20% 50V
R4307	1-216-853-11	RES-CHIP	470K 5% 1/16W	C2025	1-126-960-11	ELECT	1μF 20% 50V
R4308	1-216-853-11	RES-CHIP	470K 5% 1/16W	C2026	1-126-960-11	ELECT	1μF 20% 50V
R4310	1-218-285-11	RES-CHIP	75 5% 1/16W	C2027	1-128-551-11	ELECT	22μF 20% 25V
R4312	1-216-864-11	SHORT	0	C2028	1-126-933-11	ELECT	100μF 20% 16V
R4313	1-216-864-11	SHORT	0	C2029	1-126-964-11	ELECT	10μF 20% 50V
R4314	1-218-285-11	RES-CHIP	75 5% 1/16W	C2030	1-126-964-11	ELECT	10μF 20% 50V
R4315	1-216-821-11	RES-CHIP	1K 5% 1/16W	C2031	1-126-964-11	ELECT	10μF 20% 50V
*****				C2032	1-126-964-11	ELECT	10μF 20% 50V
* A-1391-177-A T BOARD, COMPLETE				C2033	1-126-960-11	ELECT	1μF 20% 50V
*****				C2036	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
< CONNECTOR >				C2037	1-165-176-11	CERAMIC CHIP 0.047μF	10% 16V
CN8001*	1-564-506-11	PLUG, CONNECTOR 3P		C2038	1-164-816-11	CERAMIC CHIP 220pF	2% 50V
< SWITCH >				C2040	1-126-933-11	ELECT	100μF 20% 16V
S8001	1-570-245-11	SWITCH, MICRO (LAMP COVER)		C2043	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
*****				C2044	1-126-933-11	ELECT	100μF 20% 16V
* A-1395-043-A U BOARD, COMPLETE				C2045	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
*****				C2046	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
< CAPACITOR >				C2048	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C2001	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C2050	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C2002	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C2052	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
C2003	1-126-935-11	ELECT	470μF 20% 16V	C2055	1-126-964-11	ELECT	10μF 20% 50V
C2004	1-128-551-11	ELECT	22μF 20% 25V	C2056	1-125-891-11	CERAMIC CHIP 0.47μF	10% 10V
C2005	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C2060	1-126-933-11	ELECT	100μF 20% 16V
C2006	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V	C2061	1-126-964-11	ELECT	10μF 20% 50V
				C2062	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C2069	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
				C2075	1-162-970-11	CERAMIC CHIP 0.01μF	10% 25V
				C2083	1-128-551-11	ELECT	22μF 20% 25V
				C2084	1-126-964-11	ELECT	10μF 20% 50V
				C2085	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
				C2087	1-164-160-11	CERAMIC CHIP 20pF	5% 50V
				C2089	1-126-964-11	ELECT	10μF 20% 50V
				C2090	1-164-227-11	CERAMIC CHIP 0.022μF	10% 25V
				C2091	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C2092	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C2094	1-162-964-11	CERAMIC CHIP 0.001μF	10% 50V
				C2096	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
				C2097	1-162-917-11	CERAMIC CHIP 15pF	5% 50V
				C2098	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C2099	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V
				C2102	1-107-826-11	CERAMIC CHIP 0.1μF	10% 16V



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D2034	8-719-991-33	DIODE 1SS133T-77		Q2009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D2035	8-719-110-17	DIODE RD10ESB2		Q2012	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
D2039	8-719-110-17	DIODE RD10ESB2					
D2040	8-719-800-76	DIODE 1SS226		Q2013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D2041	8-719-800-76	DIODE 1SS226		Q2015	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D2042	8-719-110-17	DIODE RD10ESB2		Q2016	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D2043	8-719-800-76	DIODE 1SS226		Q2017	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
D2044	8-719-800-76	DIODE 1SS226		Q2019	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
< FERRITE BEAD >				Q2020	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB2001	1-414-760-21	FERRITE	0μH	Q2021	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FB2002	1-414-445-11	FERRITE	0μH	Q2022	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
< FILTER >				Q2024	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL2001	1-239-848-11	FILTER, LOW PASS		Q2025	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL2002	1-239-848-11	FILTER, LOW PASS					
FL2003	1-239-848-11	FILTER, LOW PASS		Q2026	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
< IC >				Q2027	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2001	8-759-351-01	IC TEA6422DT		Q2028	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC2003	8-759-100-96	IC μPC4558G2		Q2029	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC2004	8-752-080-04	IC CXA2069Q		< RESISTOR >			
IC2007	8-752-394-69	IC CXD2073Q-T4		R2001	1-218-285-11	RES-CHIP	75 5% 1/16W
IC2301	6-700-393-01	IC NJW1106FC2		R2002	1-216-853-11	RES-CHIP	470K 5% 1/16W
IC2302	8-759-578-49	IC NJM2370U10-TE2		R2006	1-216-853-11	RES-CHIP	470K 5% 1/16W
IC2305	8-759-686-15	IC NJM2180M		R2007	1-216-853-11	RES-CHIP	470K 5% 1/16W
< JACK >				R2011	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2001	1-573-967-12	BLOCK, (S) TERMINAL (VIDEO IN1/3)		R2012	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2002	1-764-143-11	JACK (CONTROL S OUT)		R2013	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2003	1-764-143-11	JACK (CONTROL S IN)		R2014	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2004	1-750-517-21	JACK BLOCK, PIN 3P (TV OUT)		R2015	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2005	1-815-015-11	JACK BLOCK, PIN (HD/DVD IN 5)		R2016	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2006	1-815-015-11	JACK BLOCK, PIN (HD/DVD IN 6)		R2017	1-218-665-11	METAL CHIP	75 0.5% 1/16W
J2007	1-750-516-21	JACK BLOCK, PIN 2P (AUDIO OUT)		R2018	1-216-853-11	RES-CHIP	470K 5% 1/16W
J2008	1-750-517-21	JACK BLOCK, PIN 3P (VIDEO IN 4)		R2019	1-216-853-11	RES-CHIP	470K 5% 1/16W
< COIL >				R2020	1-218-665-11	METAL CHIP	75 0.5% 1/16W
L2001	1-469-559-21	INDUCTOR	47μH	R2021	1-218-665-11	METAL CHIP	75 0.5% 1/16W
L2301	1-469-555-21	INDUCTOR	10μH	R2022	1-218-665-11	METAL CHIP	75 0.5% 1/16W
L2302	1-469-555-21	INDUCTOR	10μH	R2023	1-216-853-11	RES-CHIP	470K 5% 1/16W
< TRANSISTOR >				R2024	1-216-853-11	RES-CHIP	470K 5% 1/16W
Q2001	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2025	1-218-665-11	METAL CHIP	75 0.5% 1/16W
Q2002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R2026	1-218-665-11	METAL CHIP	75 0.5% 1/16W
Q2003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R2027	1-218-665-11	METAL CHIP	75 0.5% 1/16W
Q2004	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2028	1-216-809-11	RES-CHIP	100 5% 1/16W
Q2005	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2029	1-216-809-11	RES-CHIP	100 5% 1/16W
Q2006	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2030	1-216-809-11	RES-CHIP	100 5% 1/16W
Q2007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2031	1-216-841-11	RES-CHIP	47K 5% 1/16W
Q2008	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R2032	1-216-845-11	RES-CHIP	100K 5% 1/16W
				R2034	1-216-803-11	RES-CHIP	33 5% 1/16W
				R2035	1-216-809-11	RES-CHIP	100 5% 1/16W
				R2036	1-216-809-11	RES-CHIP	100 5% 1/16W
				R2037	1-216-809-11	RES-CHIP	100 5% 1/16W
				R2038	1-216-809-11	RES-CHIP	100 5% 1/16W
				R2039	1-216-833-11	RES-CHIP	10K 5% 1/16W
				R2040	1-216-857-11	RES-CHIP	1M 5% 1/16W
				R2041	1-216-842-11	RES-CHIP	56K 5% 1/16W
				R2042	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
				R2043	1-216-809-11	RES-CHIP	100 5% 1/16W
				R2044	1-216-864-11	SHORT	0



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2045	1-216-864-11	SHORT	0	R2113	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2046	1-216-818-11	RES-CHIP	560 5% 1/16W	R2116	1-216-832-11	RES-CHIP	8.2K 5% 1/16W
R2047	1-216-809-11	RES-CHIP	100 5% 1/16W				
R2048	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R2118	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2049	1-216-809-11	RES-CHIP	100 5% 1/16W	R2121	1-216-809-11	RES-CHIP	100 5% 1/16W
R2050	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R2122	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2051	1-216-809-11	RES-CHIP	100 5% 1/16W	R2123	1-218-684-11	METAL CHIP	470 0.5% 1/16W
R2052	1-216-817-11	RES-CHIP	470 5% 1/16W	R2124	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2053	1-216-817-11	RES-CHIP	470 5% 1/16W	R2125	1-218-702-11	METAL CHIP	2.7K 0.5% 1/16W
R2054	1-216-864-11	SHORT	0	R2128	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R2055	1-216-821-11	RES-CHIP	1K 5% 1/16W	R2130	1-216-809-11	RES-CHIP	100 5% 1/16W
R2056	1-216-821-11	RES-CHIP	1K 5% 1/16W	R2131	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R2057	1-216-864-11	SHORT	0	R2132	1-216-833-11	RES-CHIP	10K 5% 1/16W
R2058	1-218-716-11	METAL CHIP	10K 0.5% 1/16W	R2133	1-218-674-11	METAL CHIP	180 0.5% 1/16W
R2059	1-216-817-11	RES-CHIP	470 5% 1/16W	R2136	1-216-816-11	RES-CHIP	390 5% 1/16W
R2060	1-216-817-11	RES-CHIP	470 5% 1/16W	R2137	1-218-700-11	METAL CHIP	2.2K 0.5% 1/16W
R2061	1-216-817-11	RES-CHIP	470 5% 1/16W	R2138	1-216-809-11	RES-CHIP	100 5% 1/16W
R2062	1-216-817-11	RES-CHIP	470 5% 1/16W	R2142	1-216-815-11	RES-CHIP	330 5% 1/16W
R2063	1-216-809-11	RES-CHIP	100 5% 1/16W	R2147	1-216-814-11	RES-CHIP	270 5% 1/16W
R2064	1-216-809-11	RES-CHIP	100 5% 1/16W	R2148	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W
R2065	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2149	1-216-817-11	RES-CHIP	470 5% 1/16W
R2066	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R2150	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2067	1-216-809-11	RES-CHIP	100 5% 1/16W	R2151	1-218-698-11	METAL CHIP	1.8K 0.5% 1/16W
R2068	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2152	1-218-694-11	METAL CHIP	1.2K 0.5% 1/16W
R2069	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2153	1-216-821-11	RES-CHIP	1K 5% 1/16W
R2070	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2155	1-216-837-11	RES-CHIP	22K 5% 1/16W
R2071	1-216-809-11	RES-CHIP	100 5% 1/16W	R2156	1-216-841-11	RES-CHIP	47K 5% 1/16W
R2072	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R2157	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R2073	1-216-809-11	RES-CHIP	100 5% 1/16W	R2159	1-216-832-11	RES-CHIP	8.2K 5% 1/16W
R2074	1-216-809-11	RES-CHIP	100 5% 1/16W	R2164	1-218-710-11	METAL CHIP	5.6K 0.5% 1/16W
R2075	1-216-809-11	RES-CHIP	100 5% 1/16W	R2166	1-216-818-11	RES-CHIP	560 5% 1/16W
R2077	1-216-809-11	RES-CHIP	100 5% 1/16W	R2169	1-216-842-11	RES-CHIP	56K 5% 1/16W
R2080	1-216-809-11	RES-CHIP	100 5% 1/16W	R2173	1-216-818-11	RES-CHIP	560 5% 1/16W
R2081	1-216-809-11	RES-CHIP	100 5% 1/16W	R2174	1-218-686-11	METAL CHIP	560 0.5% 1/16W
R2082	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R2175	1-216-817-11	RES-CHIP	470 5% 1/16W
R2084	1-216-809-11	RES-CHIP	100 5% 1/16W	R2176	1-216-825-11	RES-CHIP	2.2K 5% 1/16W
R2085	1-216-821-11	RES-CHIP	1K 5% 1/16W	R2177	1-216-809-11	RES-CHIP	100 5% 1/16W
R2086	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	R2178	1-218-676-11	METAL CHIP	220 0.5% 1/16W
R2087	1-216-809-11	RES-CHIP	100 5% 1/16W	R2182	1-216-864-11	SHORT	0
R2089	1-216-809-11	RES-CHIP	100 5% 1/16W	R2183	1-216-813-11	RES-CHIP	220 5% 1/16W
R2090	1-216-821-11	RES-CHIP	1K 5% 1/16W	R2184	1-218-704-11	METAL CHIP	3.3K 0.5% 1/16W
R2091	1-216-864-11	SHORT	0	R2185	1-218-684-11	METAL CHIP	470 0.5% 1/16W
R2092	1-216-864-11	SHORT	0	R2186	1-218-688-11	METAL CHIP	680 0.5% 1/16W
R2094	1-216-864-11	SHORT	0	R2187	1-216-864-11	SHORT	0
R2096	1-216-809-11	RES-CHIP	100 5% 1/16W	R2193	1-216-809-11	RES-CHIP	100 5% 1/16W
R2097	1-216-809-11	RES-CHIP	100 5% 1/16W	R2194	1-216-817-11	RES-CHIP	470 5% 1/16W
R2098	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2195	1-216-817-11	RES-CHIP	470 5% 1/16W
R2099	1-216-809-11	RES-CHIP	100 5% 1/16W	R2196	1-216-817-11	RES-CHIP	470 5% 1/16W
R2100	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2197	1-216-817-11	RES-CHIP	470 5% 1/16W
R2103	1-216-809-11	RES-CHIP	100 5% 1/16W	R2198	1-216-853-11	RES-CHIP	470K 5% 1/16W
R2104	1-216-809-11	RES-CHIP	100 5% 1/16W	R2199	1-216-853-11	RES-CHIP	470K 5% 1/16W
R2105	1-216-809-11	RES-CHIP	100 5% 1/16W	R2301	1-216-851-11	RES-CHIP	330K 5% 1/16W
R2107	1-216-807-11	RES-CHIP	68 5% 1/16W	R2302	1-216-835-11	RES-CHIP	15K 5% 1/16W
R2109	1-216-809-11	RES-CHIP	100 5% 1/16W	R2303	1-216-835-11	RES-CHIP	15K 5% 1/16W
R2110	1-216-809-11	RES-CHIP	100 5% 1/16W	R2304	1-216-861-11	RES-CHIP	2.2M 5% 1/16W
R2111	1-216-825-11	RES-CHIP	2.2K 5% 1/16W	R2305	1-216-845-11	RES-CHIP	100K 5% 1/16W
				R2306	1-216-861-11	RES-CHIP	2.2M 5% 1/16W

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par un tramé
et une marque Δ sont critiques pour la
sécurité. Ne les remplacer que par une
pièce portant le numéro spécifié.

KF-60DX100

RM-Y910



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2307	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	< CRYSTAL >			
R2308	1-216-841-11	RES-CHIP	47K 5% 1/16W	X2301	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
R2309	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	*****			
R2310	1-216-841-11	RES-CHIP	47K 5% 1/16W	MISCELLANEOUS			
R2311	1-216-837-11	RES-CHIP	22K 5% 1/16W	*****			
R2312	1-216-837-11	RES-CHIP	22K 5% 1/16W				
R2313	1-216-832-11	RES-CHIP	8.2K 5% 1/16W	Δ 1-419-661-11 CHOKE COIL			
R2314	1-216-832-11	RES-CHIP	8.2K 5% 1/16W	Δ 1-468-510-13 POWER BLOCK			
R2316	1-216-841-11	RES-CHIP	47K 5% 1/16W	1-500-386-11 FILTER, CLAMP (FERRITE CORE)			
R2317	1-216-845-11	RES-CHIP	100K 5% 1/16W	1-544-855-11 SPEAKER (10cm)			
R2318	1-216-809-11	RES-CHIP	100 5% 1/16W	1-544-856-11 SPEAKER (2cm)			
R2319	1-216-841-11	RES-CHIP	47K 5% 1/16W	1-544-857-11 SPEAKER (13X7cm)			
R2320	1-216-809-11	RES-CHIP	100 5% 1/16W	* 1-555-110-00 CABLE, P-P			
R2321	1-216-833-11	RES-CHIP	10K 5% 1/16W	* 1-557-056-31 CABLE, P-P			
R2322	1-216-835-11	RES-CHIP	15K 5% 1/16W	Δ 1-698-696-21 FAN, DC			
R2323	1-216-857-11	RES-CHIP	1M 5% 1/16W	1-771-787-12 SWITCH, RF ANTENNA			
R2326	1-216-864-11	SHORT	0	Δ 1-791-192-11 CORD, NOISE FILTER WITH POWER			
R2327	1-216-864-11	SHORT	0	Δ 1-900-253-70 CONNECTOR ASSY, SMP-B2P			
R2328	1-216-833-11	RES-CHIP	10K 5% 1/16W	(thermostat)			
R2329	1-216-851-11	RES-CHIP	330K 5% 1/16W	Δ A-1601-753-A LAMP BLOCK (RP) ASSY			
R2332	1-216-837-11	RES-CHIP	22K 5% 1/16W	Δ A-1601-922-A OPTICS UNIT BLOCK ASSY			
R2333	1-216-836-11	RES-CHIP	18K 5% 1/16W	*****			
R2334	1-216-833-11	RES-CHIP	10K 5% 1/16W	ACCESSORIES & PACKING MATERIALS			
R2335	1-216-835-11	RES-CHIP	15K 5% 1/16W	*****			
R2336	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)			
R2337	1-216-833-11	RES-CHIP	10K 5% 1/16W	* 4-030-895-01 JOINT			
R2338	1-216-835-11	RES-CHIP	15K 5% 1/16W	* 4-042-463-01 SHEET, PROTECTION			
R2340	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	4-086-249-11 MANUAL, INSTRUCTION (ENGLISH)			
R2341	1-216-864-11	SHORT	0	4-086-249-21 MANUAL, INSTRUCTION (FRENCH)			
R2343	1-216-864-11	SHORT	0	4-086-249-31 MANUAL, INSTRUCTION (SPANISH)			
R2353	1-216-823-11	RES-CHIP	1.5K 5% 1/16W	* 4-086-604-01 INDIVIDUAL CARTON			
R2354	1-216-842-11	RES-CHIP	56K 5% 1/16W	* 4-086-605-01 TRAY			
R2355	1-218-890-11	RES-CHIP	62K 5% 1/16W	* 4-086-606-01 BOARD, TOP			
R2356	1-216-842-11	RES-CHIP	56K 5% 1/16W	* 4-086-607-01 BOARD, BOTTOM			
R2357	1-216-833-11	RES-CHIP	10K 5% 1/16W	* 4-086-608-01 CUSHION (UPPER)			
R2358	1-216-839-11	RES-CHIP	33K 5% 1/16W	* 4-086-609-01 CUSHION (LOWER)			
R2359	1-216-824-11	RES-CHIP	1.8K 5% 1/16W	* 4-086-610-01 CUSHION (FRONT)			
R2360	1-216-861-11	RES-CHIP	2.2M 5% 1/16W	4-392-004-01 CLIP			
R2365	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	X-4033-430-1 WRENCH, ASSY			
R2366	1-216-835-11	RES-CHIP	15K 5% 1/16W	X-4038-257-2 ASSY, CLEANING CLOTH			
R2374	1-216-864-11	SHORT	0	*****			
R2375	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	REMOTE COMMANDER			
R2376	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	*****			
R2377	1-216-829-11	RES-CHIP	4.7K 5% 1/16W	1-477-008-11 REMOTE COMMANDER (RM-Y910)			
R2379	1-218-331-11	RES-CHIP	51K 5% 1/16W				
R2380	1-216-821-11	RES-CHIP	1K 5% 1/16W				
R2384	1-216-833-11	RES-CHIP	10K 5% 1/16W				
R2385	1-216-835-11	RES-CHIP	15K 5% 1/16W				
R2386	1-216-837-11	RES-CHIP	22K 5% 1/16W				
R2387	1-216-821-11	RES-CHIP	1K 5% 1/16W				
R2389	1-216-864-11	SHORT	0				
R2390	1-216-847-11	RES-CHIP	150K 5% 1/16W				

SONY®

4-086-249-11(1)

GRAND WEGA

LCD Projection TV
HD-Monitor
Operating Instructions

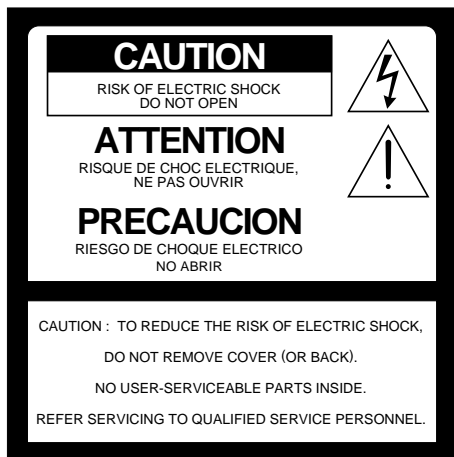
KF-60DX100

DRC
Digital Reality Creation

 **CineMotion**
reverse 3-2 pull down technology

WARNING

To prevent fire or shock hazard, do not expose the LCD Projection TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note to CATV system installer

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF, VHF, transmitted by cable companies or satellite for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antennas.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and your authority to operate this equipment.

This document is for the remote control RM-Y910.
MODEL: KF-60DX100

Please keep this notice with the instruction manual.

Safety

- ❑ Operate the LCD Projection TV only on 120 V AC.
 - ❑ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
 - ❑ If any liquid or solid object should fall inside the cabinet, unplug the LCD Projection TV immediately and have it checked by qualified service personnel before operating it further.
 - ❑ If you will not be using the LCD Projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- For details concerning safety precautions, see “Important Safeguards” on page 4.

Installing

- ❑ To prevent internal heat buildup, do not block the ventilation openings.
- ❑ Do not install the LCD Projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ❑ Avoid operating the LCD Projection TV at temperature below 41°F (5°C).
- ❑ If the LCD Projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the LCD Projection TV.
- ❑ To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the LCD Projection TV in a room where the floor and walls are not of a reflective material.



As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a U.S. registered mark.

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TruSurround technology is incorporated under license from SRS Labs, Inc.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

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CineMotion is trademark of Sony.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

ATTENTION

Pour prévenir les chocs électriques, ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent tre insérées à fond sans en laisser aucune partie à découvert.

Owner's Record

The model and serial numbers are located at the rear of the LCD Projection TV, below the Sony logo, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

Important Safeguards

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

Use

Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.



Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

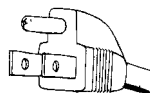
For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



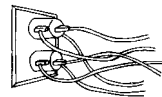
Alternate Warning for the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading

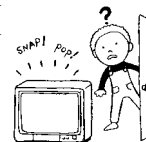
Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



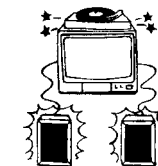
Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Cleaning

Clean the cabinet of the LCD Projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzene for cleaning.



If the picture becomes dark after using the LCD Projection TV for a long period of time, it may be necessary to clean the inside of the LCD Projection TV. Consult qualified service personnel.

Installation

Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



Accessories

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of LCD Projection TV. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- ☐ Never cover the slots and openings with a cloth or other materials.
- ☐ Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.
- ☐ Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- ☐ Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



Antennas

Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

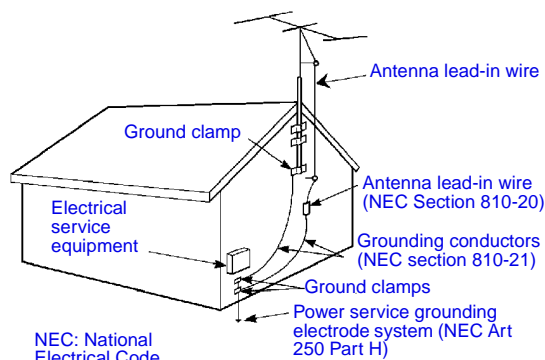
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ☐ When the power cord or plug is damaged or frayed.
- ☐ If liquid has been spilled into the set.
- ☐ If the set has been exposed to rain or water.
- ☐ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- ☐ If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- ☐ When the set exhibits a distinct change in performance, it indicates a need for service.



Safety Check

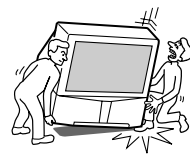
Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.



For Safety

Be careful when moving the LCD Projection TV

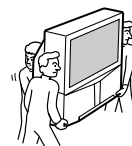
When you place the LCD Projection TV in position, be careful not to drop it on your foot or fingers.



Watch your footing while installing the LCD Projection TV.

Carry the LCD Projection TV in the specified manner

If you carry the LCD Projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.



- ☐ Carry the LCD Projection TV with the specified number of persons (see page 18).
- ☐ Do not carry the LCD Projection TV holding the speaker grill.
- ☐ Hold the LCD Projection TV tightly when carrying it.

Servicing

Do not attempt to service the set by yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

About the LCD Projection TV

Although the LCD projection TV is made with high-precision technology, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a malfunction.

Installation

- ❑ If direct sunlight or other strong illumination shines on the screen, part of the screen appears white due to reflections from behind the screen. This is a structural property of the LCD Projection TV. Do not expose the screen to direct illumination or direct sunlight.
- ❑ The picture quality may be affected by your viewing position. If you view the TV close to you, you may suffer from eye fatigue. For the best picture quality, install your LCD projection TV according to the operating instructions. Sit at least 2.2 m (approx. 7 ft.) away from your LCD projection TV, and within 60° of the vertical viewing area, and 130° of the horizontal viewing area.
- ❑ When installing your LCD Projection TV against a wall, keep it at least 10 cm (4 inches) from the wall.

Projection lamp

- ❑ Your LCD projection TV uses a projection lamp as its light source. When the projection lamp wears out after using the LCD projection TV for a long period of time, the screen image becomes dark, or no image will appear on the display. If the lamp replacement indicator of the front panel blinks in red, replace the lamp with a new one (not supplied). In some cases, the lamp bursts inside the lamp unit noisily, but the lamp unit is securely designed so that the pieces of broken glass remain inside the lamp unit. (See “Replacing the Lamp” on page 13.)

Cooling fan

- ❑ This LCD projection TV uses a cooling fan to prevent the internal temperature from heating up. You might hear the noise from the cooling fan, depending on the place you install the LCD projection TV.

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Introducing the Sony LCD Projection TV

Presenting the Sony LCD Projection TV

Thank you for purchasing the Sony LCD Projection TV.
This manual is for model KF-60DX100.

Features

Some of the features that you will enjoy with your new LCD projection TV include:

- ❑ **HD-Monitor:** Enables you to receive the 1080i, 720p*, 480p and 480i digital TV format signals.
By using the HD/DVD IN jacks, you can connect a DTV (digital television) receiver to view DTV programs.
- ❑ **DRC™:** Unlike conventional line doublers, the DRC (Digital Reality Creation) feature converts frames reproduced every 1/60th of a second in real time, minimizing the blur or ghost of the motion images (for NTSC signals only).
- ❑ **CineMotion™:** Using the reverse 3-2 pull down technology, the CineMotion feature allows you to obtain a smooth picture movement when playing back movies or other video sources on film.
- ❑ **Twin View™:** Using Multi-Image Driver (MID-X), Twin View allows you to watch two programs side by side with the ability to zoom in on one picture and listen to the program in the selected window. You can watch pictures from two different sources (1080i, 720p*, 480p or 480i) simultaneously.
- ❑ **Parental Control:** V-Chip technology allows parents to block unsuitable programming for younger viewers.
- ❑ **Component Video Inputs:** Offers the best video quality for DVD (480p, 480i) and Digital Set-top box (1080i, 720p*, 480p, 480i) connections.
- ❑ **S-VIDEO Inputs:** Provides a high-quality image for connected equipment.
- ❑ **Favorite Channel Preview:** Preview up to eight favorite channels without leaving the current channel.
- ❑ **Scrolling Channel Index:** Allows you to view and choose channels from scrolling pictures without leaving the current channel.

* This LCD projection TV is not capable of displaying a native 720p format signal. Therefore, when a native 720p format signal is received, it is converted into a 480p format signal.

(Continued)

- ❑ **Wide Screen Mode:** Allows you to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).
- ❑ **Auto Wide:** Allows you to select the wide screen mode automatically.

Using This Manual

We recommend that you carefully review the contents of the following three sections in the order shown to ensure that you fully understand the operation of your new LCD projection TV.

1 Installing and Connecting the LCD Projection TV

This section guides you through your initial setup. It shows you how to install your LCD projection TV, to connect your new components and to connect the antenna and cable.

2 Using the Features

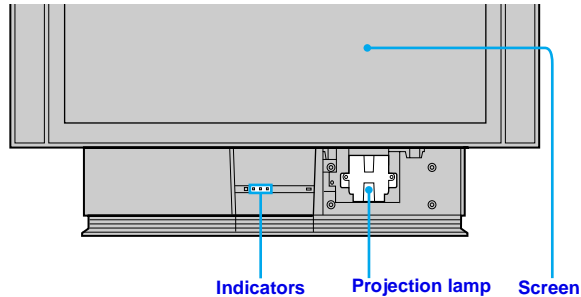
This section shows you how to begin using your new LCD projection TV. It also shows you how to use your remote control functions.

3 Using the menus

This section teaches you how to access on-screen menus and adjust your LCD projection TV settings.

Instructions in this manual are written for the remote control. Similar controls are also found on the LCD projection TV console.

Enjoying Your LCD Projection TV



Indicators

The indicators show the current status of your LCD projection TV. If the LAMP indicator flashes, see “What Flashing of the Indicators on the Front of the Monitor Means” on page 85.

Screen

To minimize screen reflection, its surface has a special coating. Read the instructions “Use of the Cleaning Cloth” on page 12 carefully before cleaning.

Inappropriate cleaning methods could damage the finishing.

Projection lamp

Your LCD projection TV uses a projection lamp as its light source. Note the following:

- ❑ After turning on your LCD projection TV, it may take a while before the normal screen appears (1 minute or less).
- ❑ When the projection lamp wears out, the screen image becomes dark. Replace the lamp with a new Sony XL-2000U replacement lamp (not supplied).



Be sure to attach the lamp cover securely; otherwise, your LCD projection TV will not turn on. For details on lamp replacement, see “Replacing the Lamp” on page 13.



The light emitted from the lamp is quite bright when your LCD projection TV is in use. To avoid eye discomfort or injury, do not look into the housing when the power is on.

Notes on the LCD Projection TV

To enjoy clear pictures

- ❑ Be sure not to allow sunlight or light from a lamp to shine directly onto the screen.
- ❑ The screen surface is easily scratched. Do not rub, touch, or tap it with a sharp or abrasive object (see “Use of the Cleaning Cloth” below).

On moisture condensation

- ❑ If your LCD projection TV is transported directly from a cold to a warm location, is placed in a humid room, or if the room temperature changes suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the lenses inside. If this happens, leave the power on and let the moisture evaporate before using your LCD projection TV.

When the LCD projection TV will not be used for a long period of time




- ❑ Turn off the main power of your LCD projection TV before going to sleep or going out.

When turning off the power

- ❑ Be sure to turn off the power switch on the main unit or on the remote control. After turning off the power, the fan will continue to blow for about two minutes. Be sure to wait for several minutes after turning the power off when unplugging from the outlet or switching the breaker off.

Use of the Cleaning Cloth

To remove dust from the front of the screen, wipe with the supplied Cleaning Cloth.

-  Do not use any type of abrasive pad, alkaline cleaner, scouring powder, or solvent such as alcohol or benzene. Otherwise, this type of contact may result in a damaged screen.
-  To clean the screen, please use the supplied Cleaning Cloth lightly moistened with water diluted mild detergent solution.
-  The supplied Cleaning Cloth is washable with warm water and a mild detergent solution, and can be used repeatedly.

Replacing the Lamp

The projection lamp has a limited life.

If the screen becomes dark, the color looks unusual, or the LAMP indicator on the front of the LCD projection TV flashes, it is time to replace the lamp with a new one (not supplied).



WARNING

Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- ❑ Use a Sony XL-2000U replacement lamp (not supplied) for replacement. Failure to do so may damage the LCD projection TV.
- ❑ Do not remove the lamp for any purpose other than replacement. Failure to do so may cause fire or a skin burn.
- ❑ Before replacing the lamp, turn the power off on the main unit, then several minutes later, unplug the power cord. (The cooling fan will continue to blow for about two minutes after turning the power off.)
- ❑ Before replacing the lamp, let it cool down completely, as the surface of the lamp remains extremely hot for at least 30 minutes after the power has been turned off.
- ❑ Do not leave the removed lamp near flammable materials or within the reach of children.
- ❑ Do not pour water onto the removed lamp, or put any object inside the lamp. Doing so may cause the lamp to burst.
- ❑ Do not put flammable materials and metal objects inside the lamp receptacle of the LCD projection TV after removing the lamp. Doing so may cause fire or electrical shock. Also, be sure not to touch the receptacle, because it may cause a skin burn.
- ❑ Mount the new lamp securely, otherwise the screen may become dark, or it may cause a fire.

Collecting the used lamp

For environmental conservation, Sony collects the used lamps. Please put the used lamp in the lamp box and give it to your Sony dealer where you bought the lamp.



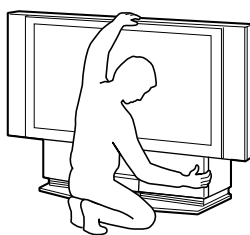
Do not touch the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

(Continued)

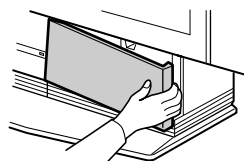
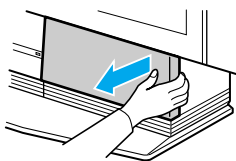
- 1 Turn off the power switch on the LCD projection TV and after several minutes, unplug the power cord.
(The cooling fan will continue to blow for about two minutes after turning the power off.)

 Do not touch the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

- 2 Unplug the power cord after turning off the main power. Wait at least 30 minutes to allow the lamp to cool down before replacing it.
Take the new lamp out of the box.
- 3 Remove the front panel.

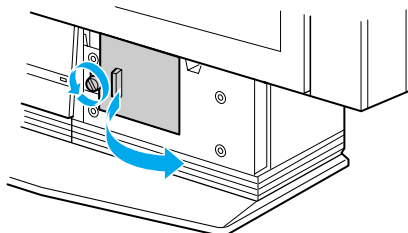


Hold the LCD projection TV firmly so that it does not move.

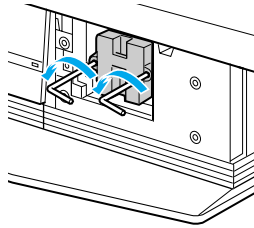


Grasping the right end of the front panel with your fingers, pull the panel towards you.

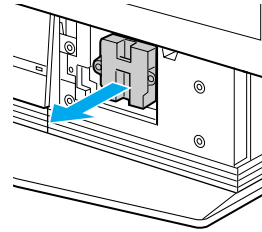
- 4 Loosen the screw with a coin or similar object to remove the lamp cover.



- 5 Loosen the two screws that secure the lamp, then pull out the lamp. The lamp is very hot immediately after use. Never touch the front glass of the lamp or the surrounding parts.



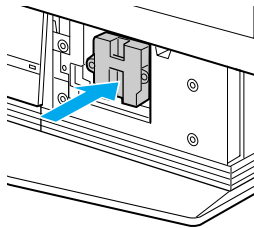
Loosen the two screws with the hex key supplied with the lamp.



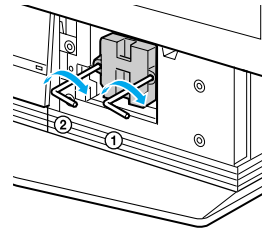
Hold the handle and pull straight out.

After it has cooled, place the removed lamp into the empty box of the replacement lamp. Never put the removed lamp into a plastic bag.

- 6 Mount the new lamp. Be sure to attach the new lamp securely.

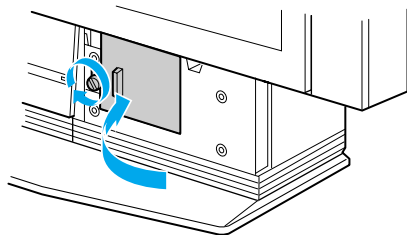


Mount the new lamp securely into the lamp receptacle.



Tighten the two screws securely in the order of ① to ②, as shown in the illustration using the supplied hex key.

- 7 Mount the lamp cover and tighten the screw. Make sure that the lamp cover is mounted securely, otherwise the power will not turn on.

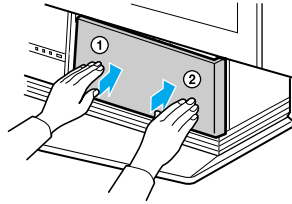




Match the projection of the right side of the lamp cover with the hole of the unit, and replace the lamp cover as it was.

If the lamp cover is not mounted securely, the self-diagnostic function works and the TIMER/STAND BY indicator flashes for three times (See page 85).

(Continued)

- 8 Mount the front panel in the order of ① to ②, as shown in the illustration.



-  Consult your Sony dealer for a Sony XL-2000U replacement lamp.
-  Take great care when replacing the lamp or plugging in/unplugging the connecting cords. If you handle them roughly, the LCD projection TV may fall or be moved, and the TV stand or floor surfaces may be scratched.

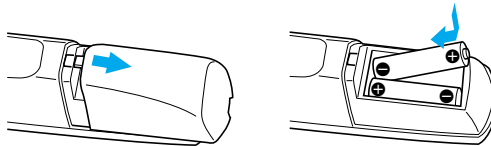
Installing and Connecting the LCD Projection TV




Contents

The box contains your new LCD projection TV, a remote control and two AA batteries. No peripheral cables are included. If you intend to add additional equipment to your LCD projection TV, please check the hookup instructions for your desired setup before you begin. You may need to purchase cables and/or splitters to complete the hookup properly.

Inserting Batteries into the Remote Control

Insert two size AA batteries (supplied) by matching the + and – on the batteries to the diagram inside the battery compartment.

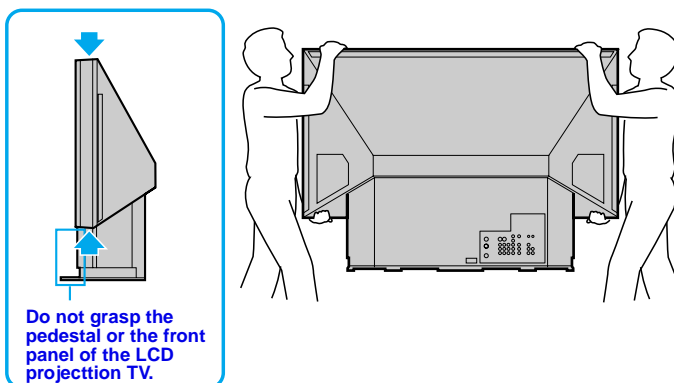


-  Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
-  Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
-  Your remote control can be programmed to operate most video equipment. (See "Programming the Remote Control" on page 77.)

Carrying Your LCD Projection TV

Carrying the LCD projection TV requires at least two people. Do not grasp the pedestal or the front panel of the LCD projection TV, otherwise these parts might break off.

When moving the LCD projection TV, support the screen bottom with one hand while grasping the top part with the other hand, as shown in the illustration below.



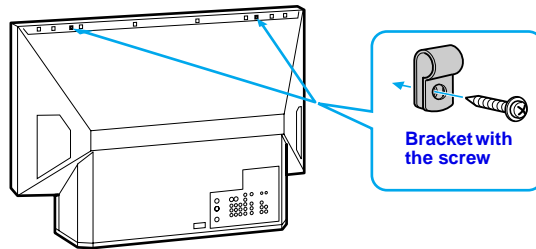
To Prevent the LCD Projection TV from Falling Down

Pay special attention to children around the LCD projection TV. If children should climb onto or push the LCD projection TV or its stand, it may fall down.

As a protective measure, secure the LCD projection TV as follows.

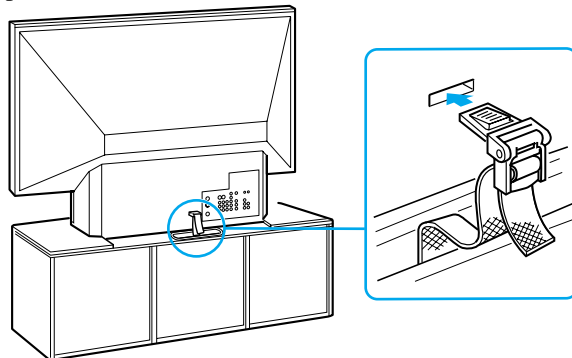
Using supplied brackets

- 1 Mount the two brackets with the screws (supplied) to the upper rear sides of the LCD projection TV (left and right sides).
- 2 Pass a strong cord or chain (not supplied) through each bracket and then secure it to a wall or a pillar, etc.



Using the LCD projection TV stand with support belts

- ☐ You can also use the LCD projection TV stand SU-60DX (not supplied) with support belts.



When Installing Your LCD Projection TV Against a Wall

Keep your LCD projection TV at least 10 cm (4 inches) from the wall.

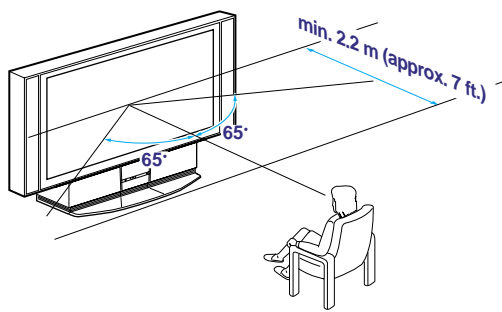
Recommended Viewing Area

The picture quality may be affected by your viewing position.

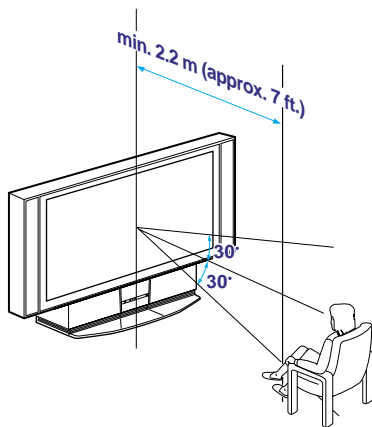
For the best picture quality, install your LCD projection TV within the areas shown below.

Sit at least 2.2 m (approx. 7 ft.) away from your LCD projection TV, and within 60° of the vertical viewing area, and 130° of the horizontal viewing area.

Horizontal Viewing Area



Vertical Viewing Area



Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna cable

Plug Type



Screw-on Type



S Video cable

High quality video cable for enhanced picture quality



Audio/Video cable



Video - Yellow

Audio (Left) - White

Audio (Right) - Red

Some DVD Players are equipped with the following three video connectors:

Y - Green

P_B (C_B, C_b or B-Y) - Blue

P_R (C_R, C_r or R-Y) - Red

CONTROL S cable

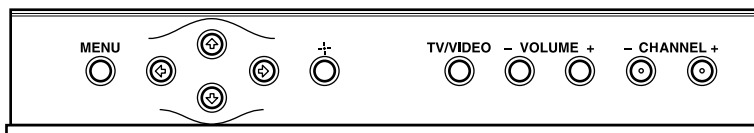
CONTROL S connections are exclusive to Sony products and allow greater control of all Sony equipment.



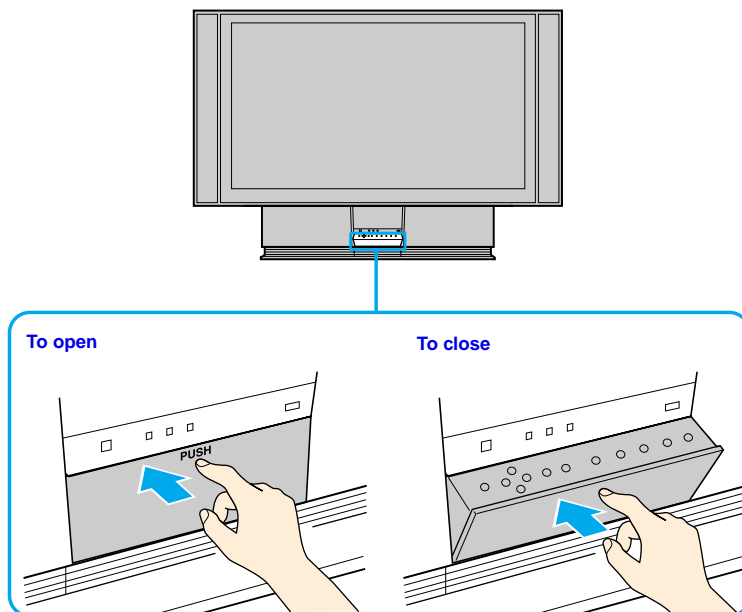
LCD Projection TV Controls and Connectors

Front Panel Menu Controls

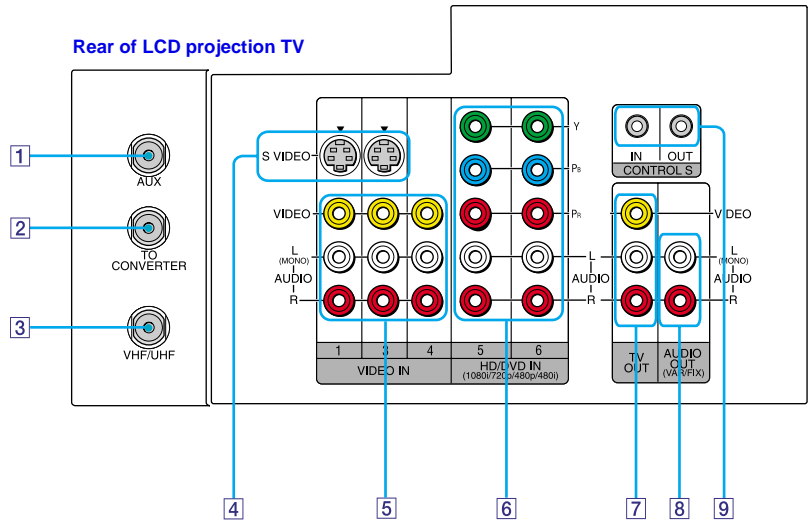
The front panel menu controls allow access to the on-screen menus without the use of a remote control. Pressing MENU brings up the on-screen menus. The arrow buttons move the on-screen cursor in the menus and by pressing the Select button (+) selects the menu item.



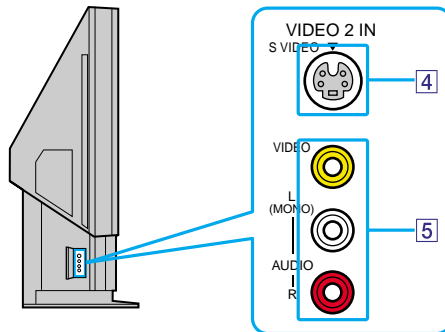
How to open and close the front panel



LCD Projection TV Rear and Side Panel Connectors



Left side of LCD projection TV



(Continued)

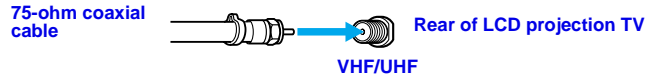
Connection	Description
1 AUX	Allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels easily by pressing ANT on the remote control. Devices connected to the AUX input cannot be viewed in Twin View .
2 TO CONVERTER	This is a VHF/UHF OUT jack that lets you set up your LCD projection TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when switching between scrambled and unscrambled cable channels.
3 VHF/UHF	Connects to your VHF/UHF antenna or cable.
4 S VIDEO (Rear and side)	Connects to the S VIDEO OUT jack of your VCR or other S VIDEO -equipped video component. Provides better picture quality than the VHF/UHF jacks or the Video IN jack.
5 VIDEO (L/R)/AUDIO (Rear and side)	Connects to the audio and video OUT jacks on your VCR or other video component. A fourth video input (VIDEO 2) is located on the side panel of the LCD projection TV.
6 HD/DVD IN (1080i, 720p, 480p, 480i)	Connects to your DVD player's or Digital Set-top box's component video (Y, PB, PR) and audio (L/R) jacks.
7 TV OUT	Connects to an AV receiver for greater control of all audio and video equipment (see page 40). For detailed information about connection, refer to the operating manual supplied with the AV receiver .
8 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio inputs of your audio or video component.
9 CONTROL S IN/OUT	<p>To control other Sony equipment with the LCD projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the LCD projection TV with the CONTROL S cable.</p> <p>To control the LCD projection TV with a remote control for another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the LCD projection TV with the CONTROL S cable.</p>

Basic Connections (Connecting Cable TV or Antenna)

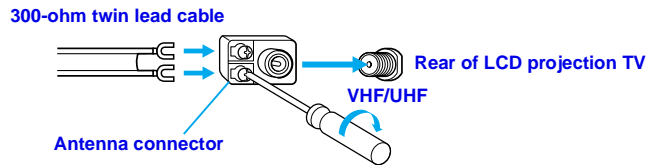
Connecting Directly to Cable or an Antenna

The connection you choose depends on the cable found in your home. Newer homes are equipped with standard coaxial cable (see **A**); older homes probably have 300-ohm twin lead cable (see **B**); other homes may contain both (see **C**).

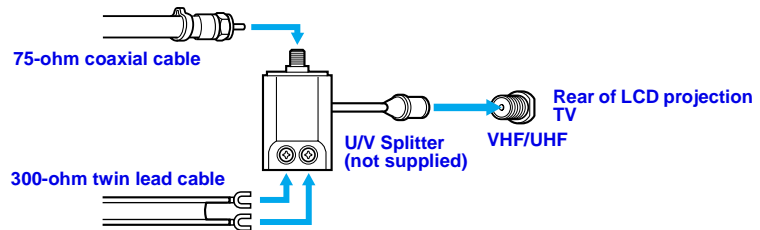
A VHF Only or VHF/UHF or Cable





B VHF Only or UHF Only or VHF/UHF



C VHF and UHF

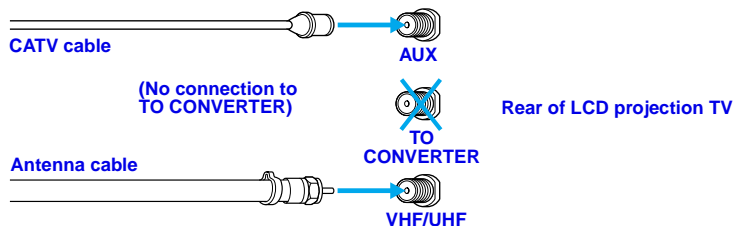


 It is strongly recommended to connect the antenna using a 75-ohm coaxial cable to get optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it away as far as possible from the LCD projection TV.

 Do not use an indoor antenna because it is especially susceptible to radio noise.

Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.



Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.



To receive channels with an antenna, you need to turn your Cable to OFF (see page 62) and perform the Auto Program function (see page 63).

Cable Box Connections

Cable Box and Cable

This is the preferred basic cable TV hookup to use if:

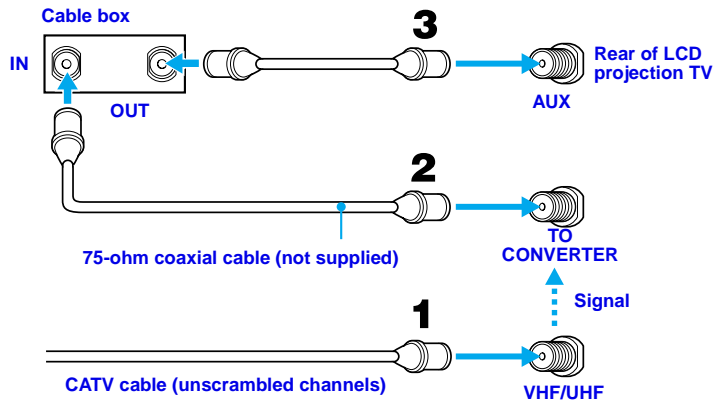
- ☐ Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- ☐ You want to enjoy the Twin View feature.


With this setup you can:

- ☐ Use the LCD projection TV remote control to change channels using your cable box when the signal is scrambled.
- ☐ Use the LCD projection TV remote control to change channels using your LCD projection TV when the signal is not scrambled. (Your LCD projection TV's tuner provides a better signal than the cable box.)
- ☐ Use the Twin View feature. (When all channels are routed through your cable box, only one channel is sent to the LCD projection TV, so you can not use the Twin View or Channel Index features for your cable box.)

- 1 Connect the Cable TV cable to the LCD projection TV's VHF/UHF jack.
- 2 Using a coaxial cable, connect the LCD projection TV's TO CONVERTER jack to the cable box's IN jack. The LCD projection TV's internal converter allows you to switch between unscrambled signals coming straight into the LCD projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.

- 3 Using a coaxial cable, connect the cable box's OUT jack to the LCD projection TV's AUX jack.



 Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the TV (unscrambled).

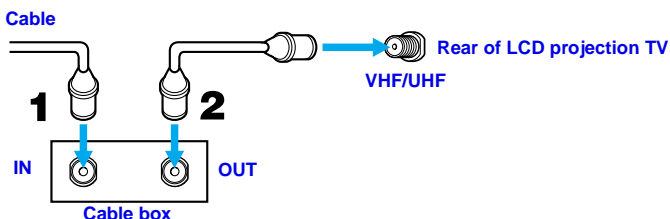
Cable Box Only

Use this hookup if:


- ❑ You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- ❑ You do not intend to hook up any other audio or video equipment to your LCD projection TV.


When all channels are routed through your cable box, only one unscrambled channel is sent to the LCD projection TV, so you cannot use the Twin View feature. If some channels are scrambled, but others are not, consider using the hookup on page 26 instead.

- 1 Connect the coaxial connector from your cable service to the cable box's IN jack.
- 2 Using a coaxial cable, connect the cable box's OUT jack to the LCD projection TV's VHF/UHF jack.



Also, set Cable to ON in the Channel menu (see page 62).

 Your Sony remote control can be programmed to operate your cable box (see "Programming the Remote Control" on page 77).

 To change channels using the cable box, set your LCD projection TV to channel 3 or 4 depending on the cable box channel output. If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your LCD projection TV to channel 3 or 4 (see page 63).



Setting the Channel Fix feature in the Channel menu (see "Using the Channel Menu" on page 62), ensures that you do not accidentally switch the channels using your LCD projection TV.

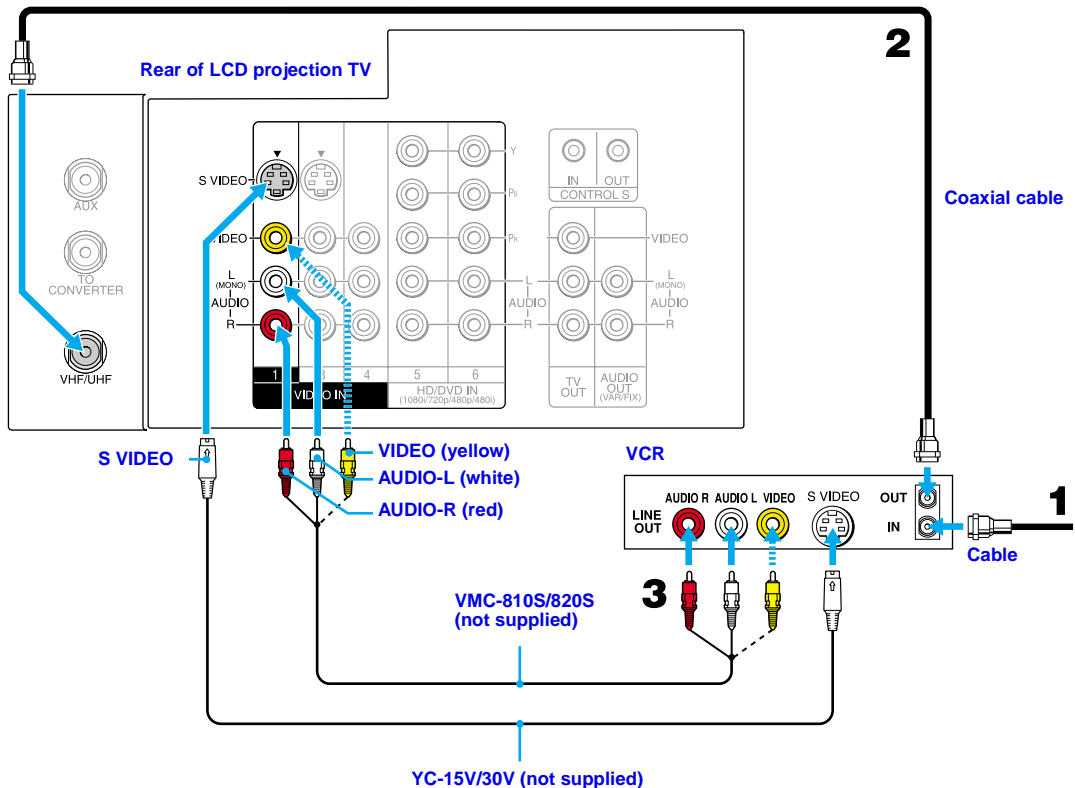
Connecting a VCR and Cable


Use this hookup if:

- ❑ You have cable TV that does not require a cable box.

Disconnect all power sources before making any connections.

- 1 Connect the cable TV cable to the VCR's IN jack.
- 2 Using a coaxial cable, connect the VCR's OUT jack to the LCD projection TV's VHF/UHF jack.
- 3 Using AUDIO and S VIDEO cables, connect the VCR's Audio and S Video OUT jacks to the LCD projection TV's AUDIO and S VIDEO IN jacks.



 If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Connecting a VCR and Cable Box

Use this hookup if:

- ❑ Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- ❑ You want to enjoy the Twin View feature.

With this setup you can:

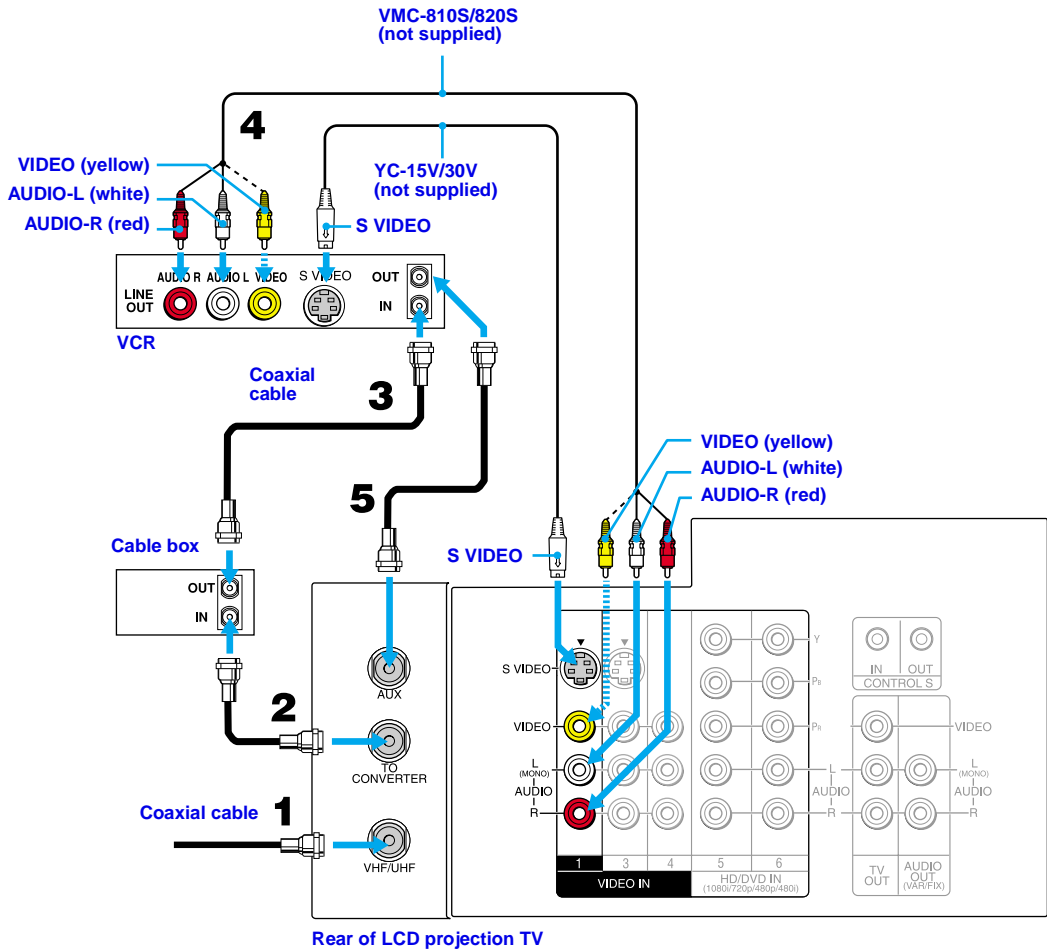
- ❑ Use the LCD projection TV remote control to change channels on your cable box when the signal is scrambled. To program your Sony remote control to operate your cable box, see “Programming the Remote Control” on page 77.
- ❑ Use the LCD projection TV remote control to change channels using your LCD projection TV when the signal is not scrambled. Your LCD projection TV’s tuner provides a better signal than the cable box.
- ❑ Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the LCD projection TV, so you cannot use the Twin View feature.)

Disconnect all power sources before making any connections.

- 1 Connect the Cable TV cable to the LCD projection TV’s VHF/UHF jack.
- 2 Using a coaxial cable, connect the LCD projection TV’s TO CONVERTER jack to the cable box’s IN jack. The LCD projection TV’s internal converter allows you to switch between unscrambled signals coming straight into the LCD projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- 3 Using a coaxial cable, connect the cable box’s OUT jack to the VCR’s IN jack.
- 4 Using AUDIO and S VIDEO cables, connect the VCR’s AUDIO and S VIDEO OUT jacks to the LCD projection TV’s AUDIO and S VIDEO IN jacks.
- 5 Using a coaxial cable, connect the VCR’s OUT jack to the LCD projection TV’s AUX jack.



To view scrambled channels, set your LCD projection TV to AUX 3 or 4 (depending on your cable box output). Change channels using your cable box.



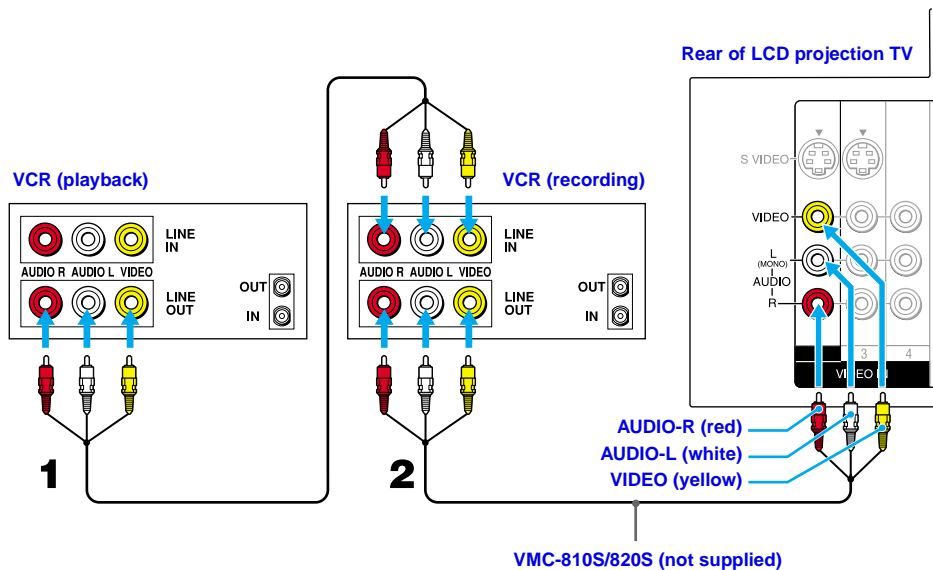
- ⚠ If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- ⚠ You will not be able to change channels on the VCR. Set your LCD projection TV and VCR to channel 3 or 4, depending on your cable box channel output.
- ⚠ Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the LCD projection TV (unscrambled).

Connecting Two VCRs for Tape Editing

If you connect two VCRs, you can record from one VCR to the other while using your LCD projection TV to monitor what is being recorded.

Disconnect all power sources before making any connections.

- 1 Using AUDIO and VIDEO cables, connect the playback VCR's Audio and Video OUT jacks to the recording VCR's Audio and Video IN jacks.
- 2 Using AUDIO and VIDEO cables, connect the recording VCR's AUDIO and Video OUT jacks to the LCD projection TV's AUDIO and VIDEO IN jacks.




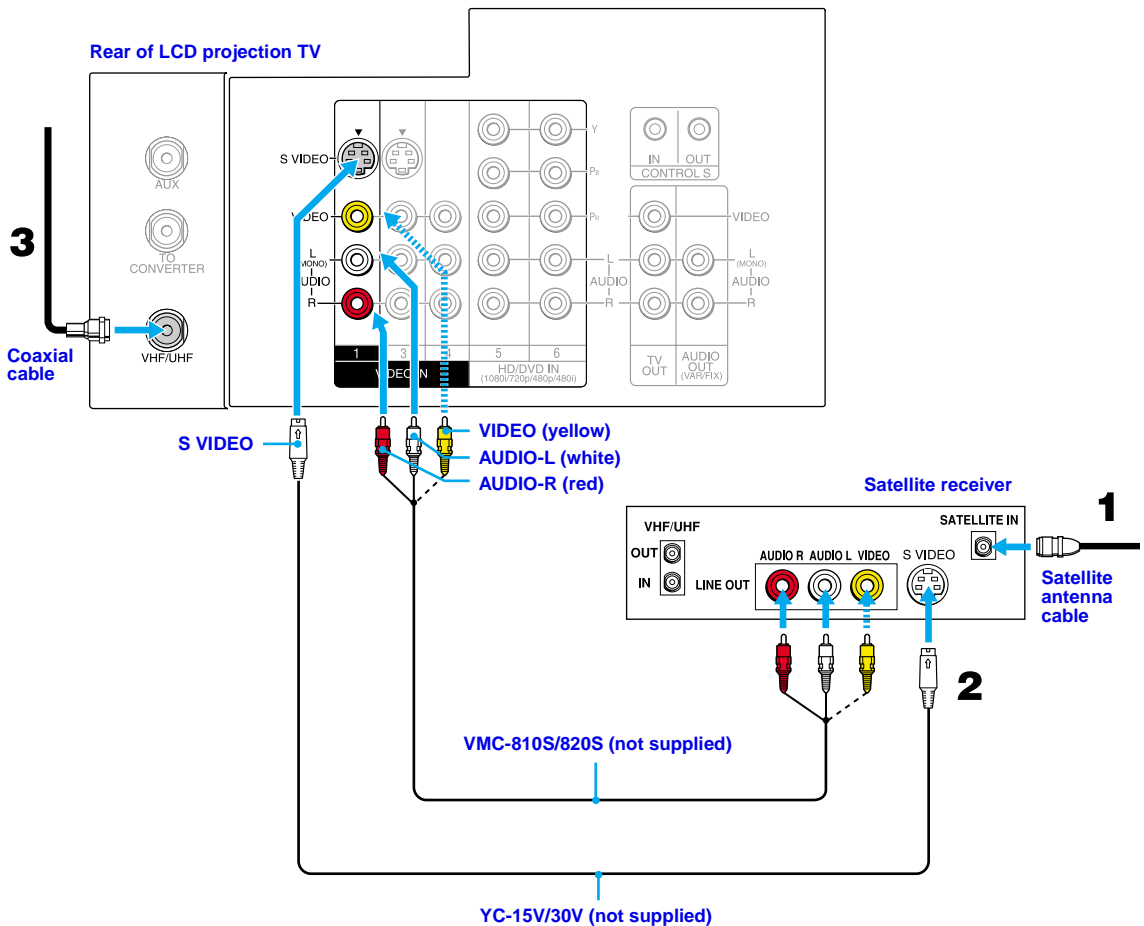
- To perform tape editing, set the LCD projection TV to the video input intended for playback by pressing TV/VIDEO on the remote control.
- You may need to change the video input on your VCR. Consult your VCR's operating manual for instructions.
- If your VCRs have an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable.
Using an S VIDEO cable, connect the playback VCR's S VIDEO OUT jack to the recording VCR's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must be connected to provide sound.
- You cannot record signals from equipment connected to the Y, P_B, P_R input.

Connecting a Satellite Receiver

Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the LCD projection TV's AUDIO and S VIDEO IN jacks.
- 3 Connect a coaxial cable from your cable or antenna to the LCD projection TV's VHF/UHF jack.

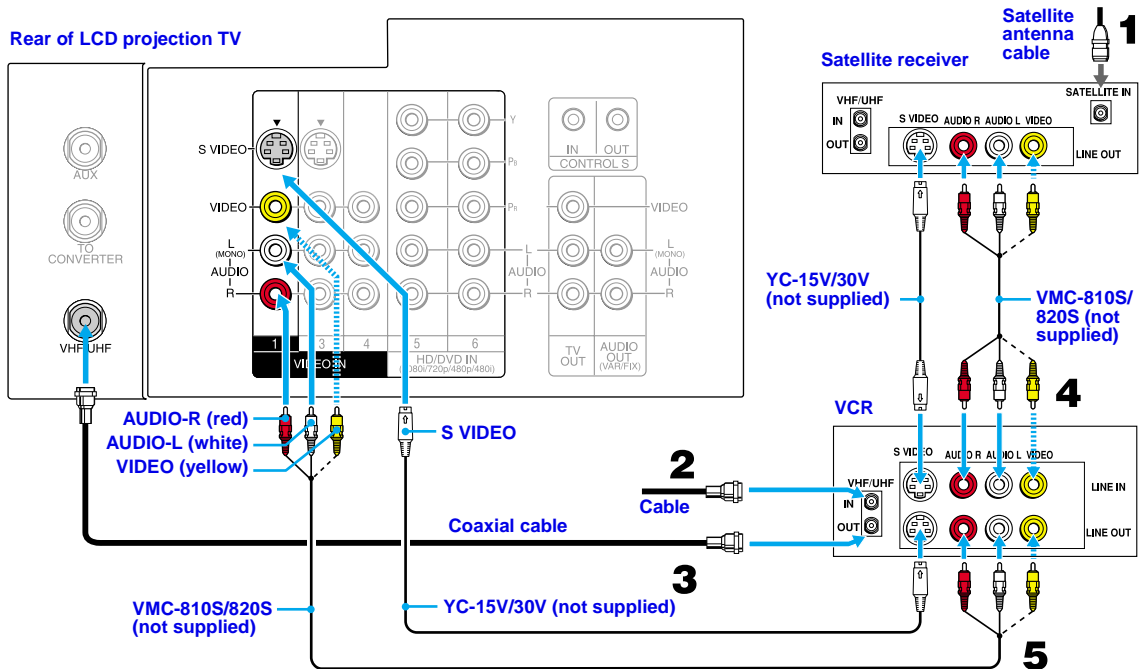
 If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



Connecting a Satellite Receiver with a VCR

Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF IN jack.
- 3 Using a coaxial cable, connect the VCR's OUT jack to the LCD projection TV's VHF/UHF jack.
- 4 Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the VCR's AUDIO and S VIDEO IN jacks.
- 5 Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the LCD projection TV's AUDIO and S VIDEO IN jacks.

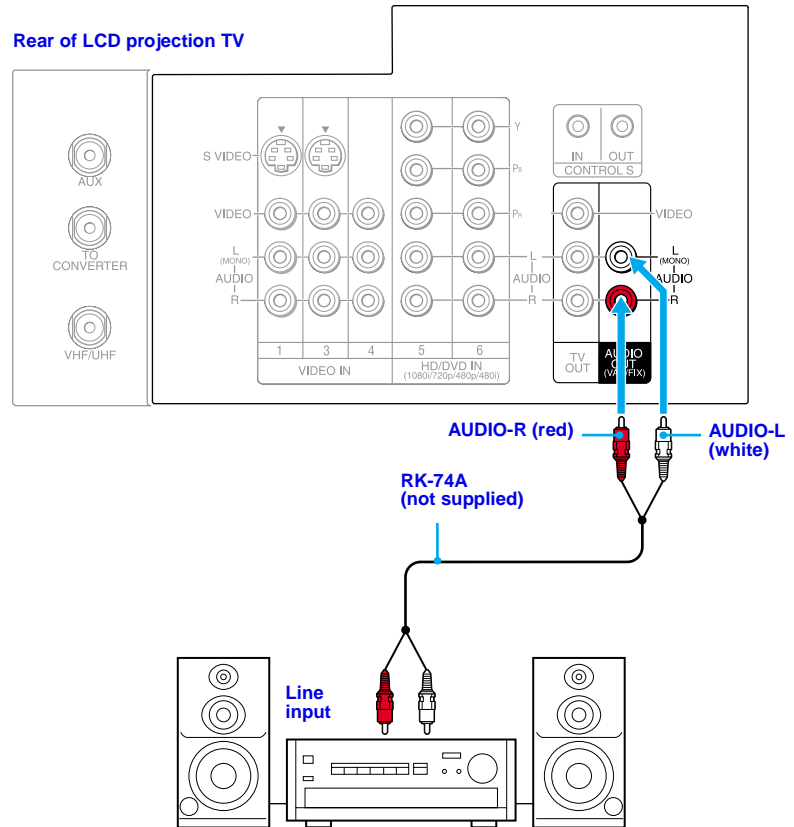


- ⚠ Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
- ⚠ Use TV/VIDEO to select
 - VIDEO 1 to watch satellite TV or the VCR (your VCR must be turned on).
 - VHF/UHF to watch cable TV.
- ⚠ If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Connecting an Audio Receiver

Disconnect all power sources before making any connections.

Using audio cables, connect the LCD projection TV's AUDIO OUT (VAR/FIX) jacks to the audio receiver's audio LINE IN jacks.




Connecting a DVD Player with Component Video Connectors

This is the preferred hookup to use if:

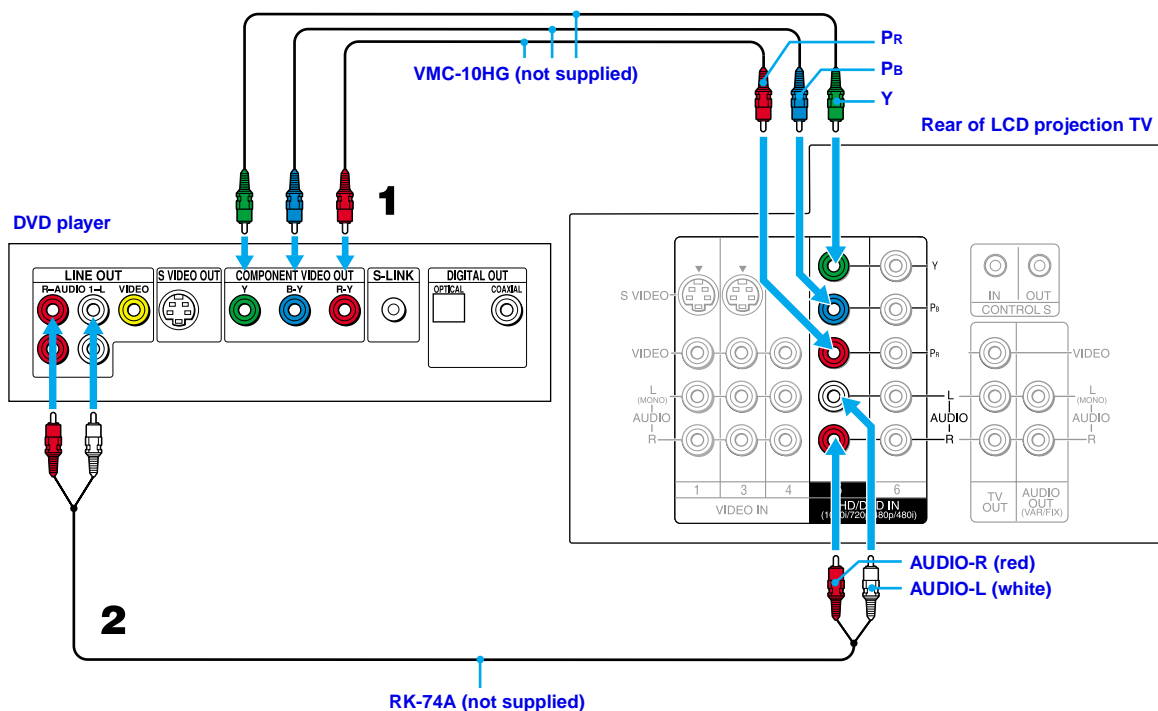
- ❑ Your DVD player has component (Y, B-Y, R-Y) jacks.


Disconnect all power sources before making any connections.

- 1 Using three separate component video cables, connect the DVD player's Y, B-Y and R-Y jacks to the Y, PB and PR jacks on the LCD projection TV. Use the HD/DVD IN 5 or 6 connections.

 The Y, B-Y and R-Y jacks on your DVD player are sometimes labeled Y, C_B and C_R, or Y, P_B and P_R. If so, connect the cables to like colors.

- 2 Using an audio cable, connect the DVD player's Audio OUT jacks to the LCD projection TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (HD/DVD IN 5 or 6).




 To take advantage of the Wide Screen modes, set the TV's aspect ratio to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.

Connecting a DVD Player with A/V Connectors

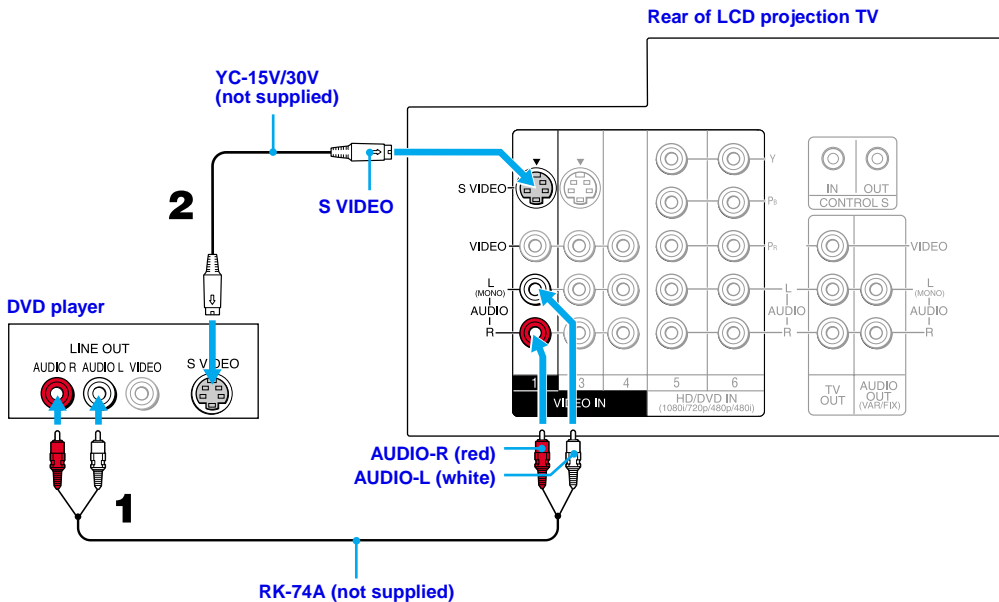
Use this hookup if:


- ❑ Your DVD player does not have component (Y, PB, PR) jacks.


 If your DVD player has video component output connectors: for best picture quality use the connection described on page 36.


Disconnect all power sources before making any connections.

- 1 Using audio cables, connect the DVD player's Audio OUT jacks to the LCD projection TV's AUDIO IN jacks.
- 2 Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the LCD projection TV's S VIDEO jack.




 To take advantage of the Wide Screen modes, set the TV's aspect ratio to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.

 Use TV/VIDEO on the remote control to switch between the VCR, DVD player and cable TV inputs.


 If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.


Connecting a Digital TV Receiver

 Be sure to read the Set-top box manual.

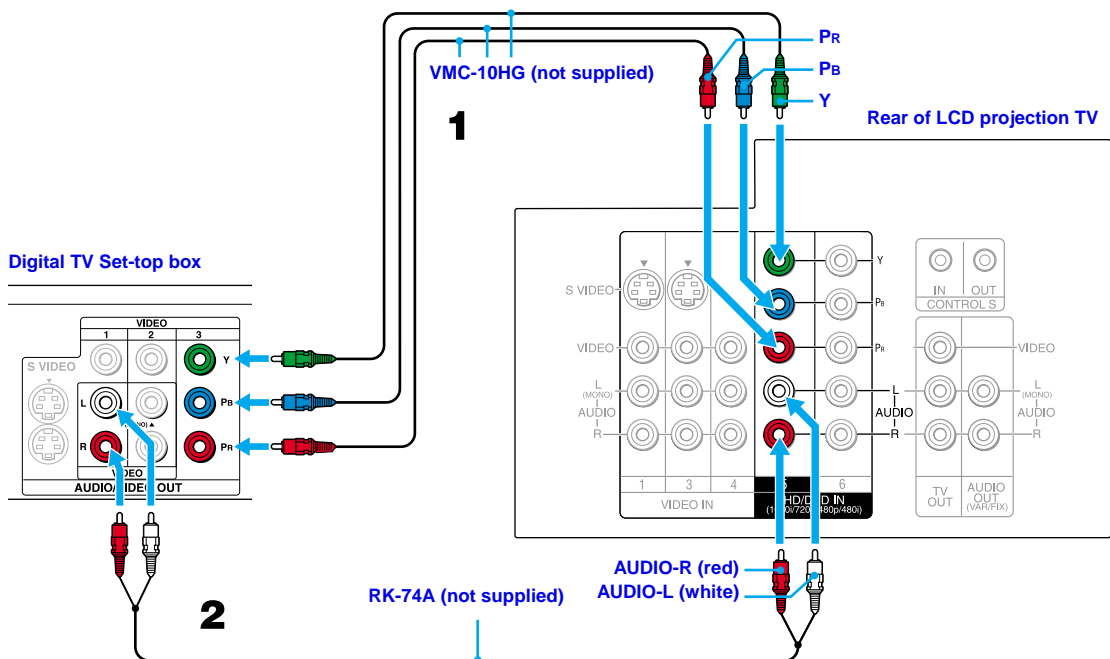
Disconnect all power sources before making any connections.


- 1 Using three separate component video cables, connect the Digital TV Set-top box's Y, PB and PR jacks to the LCD projection TV.


 The Y, PB and PR jacks do not provide audio, so audio cables must be connected to provide sound.

 Component video connection is necessary to view 480i, 480p, 720p, and 1080i formats. You may also use the S VIDEO or Composite Video connections, however, component video (Y, PB, PR) will provide the best picture quality for all format types.

- 2 Using an audio cable, connect the Digital TV Set-top box's Audio OUT jacks to the LCD projection TV's AUDIO IN jacks.





 You cannot record the signal from any equipment connected into the Y, PB and PR connectors.

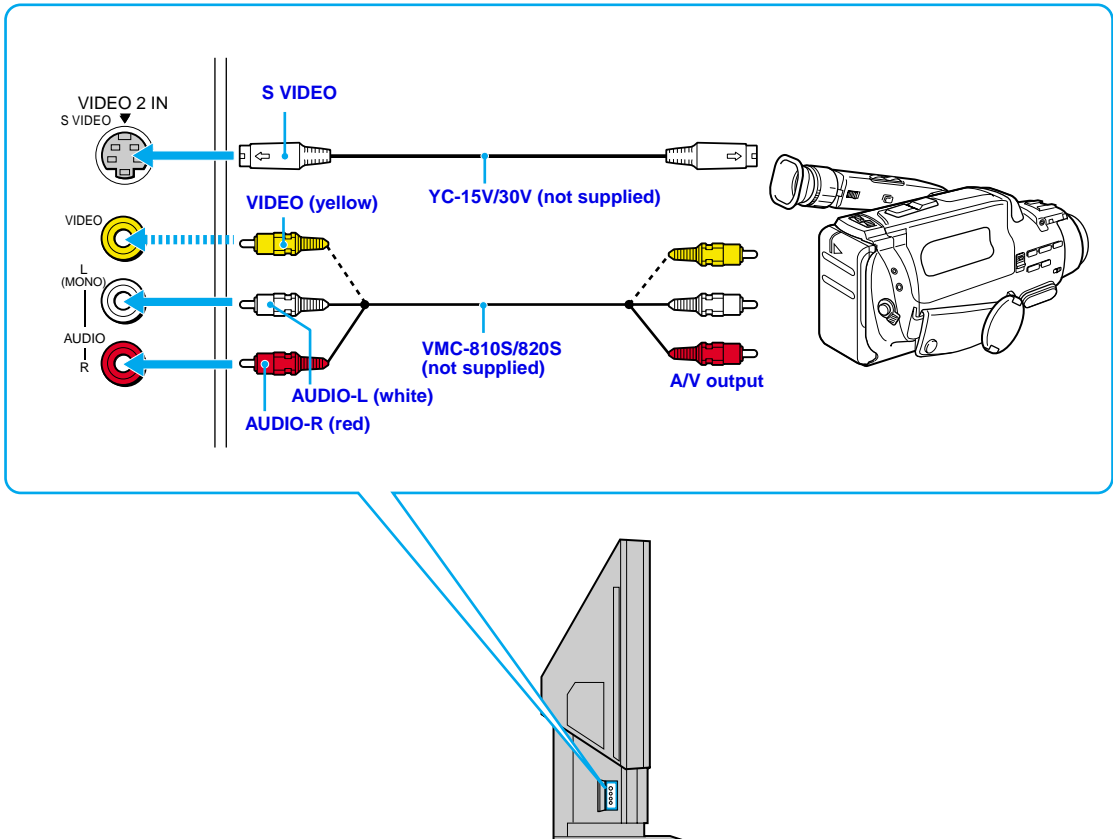
 This LCD projection TV is not compatible with digital TV receivers configured with RGB or VGA output connectors.

Connecting a Camcorder

For easy connection of the camcorder, the LCD projection TV has side Audio and Video inputs (shown below). However, if you prefer, you can also connect the camcorder to the LCD projection TV's rear Audio and Video IN jacks.

Using AUDIO and S VIDEO cables, connect the camcorder's Audio and S VIDEO OUT jacks to the LCD projection TV's AUDIO and S VIDEO IN jacks.

-  If you have a mono camcorder, connect its left audio output to the LCD projection TV's AUDIO L (MONO) jack.
-  If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



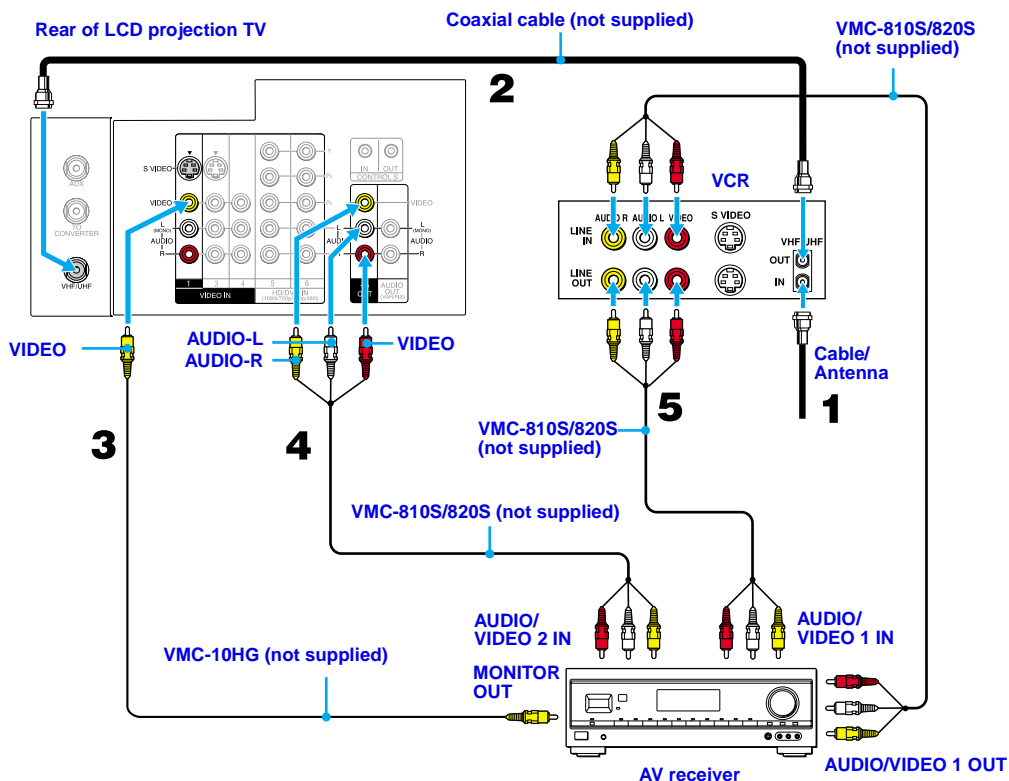
Connecting an AV Receiver

For greater control of all audio and video equipment, connect an AV receiver.

 Change "Video Label" for the VIDEO 1 input to "Receiver" (see page 68).

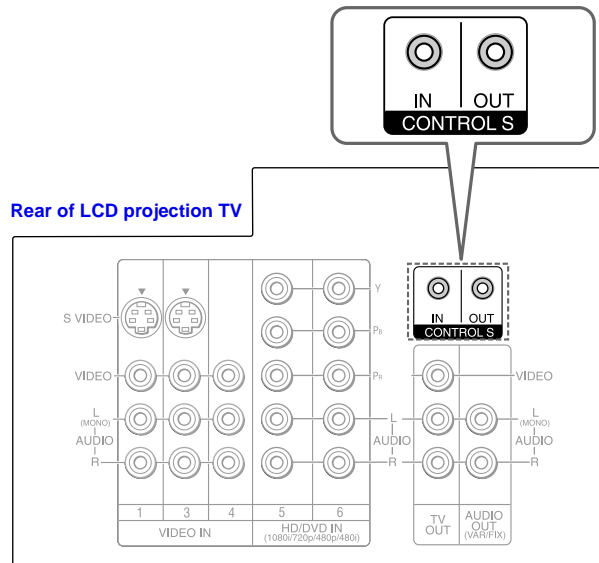
Disconnect all power sources before making any connections.

- 1 Connect the coaxial cable from the incoming cable connection or antenna to IN on the VCR.
- 2 Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the LCD projection TV.
- 3 Using a VIDEO cable, connect VIDEO of VIDEO 1 IN on the LCD projection TV to MONITOR OUT on the AV receiver.
- 4 Using an AUDIO/VIDEO cable, connect TV OUT on the LCD projection TV to AUDIO/VIDEO 2 IN on the AV receiver.
- 5 Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.
- 6 Select the Setup menu and set "Video Label" to "Receiver" to fix your LCD projection TV's input to AV receiver (see "Video Label" on page 68).




Using the CONTROL S Feature

CONTROL S allows you to control your LCD projection TV system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your LCD projection TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.




Setting Up the LCD projection TV Automatically

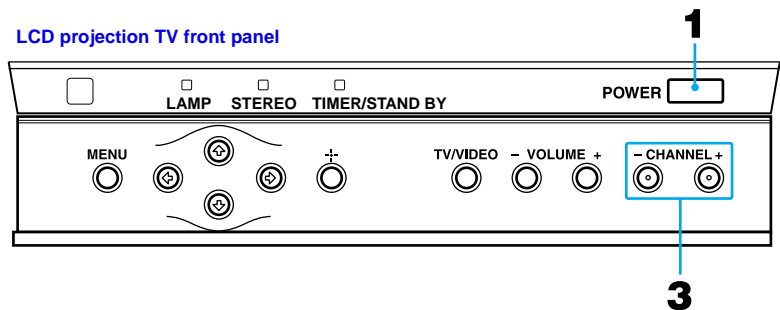
After you finish connecting your LCD projection TV, you can run Auto Setup to set up your channels. The Auto Setup screen appears when you turn your LCD projection TV on for the first time after installing it. If you do not want to set up the channels at this time, you can do it later by using the Auto Program feature in the Channel menu (see page 63).


 The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

- 1 Press **POWER** on the front panel of your LCD projection TV or on the remote control to turn on the LCD projection TV.
- 2 Press the **TV (FUNCTION)** button on your remote control. Red light will briefly appear.
- 3 Press **CH+** on your LCD projection TV to run Auto Setup, or press **CH-** to exit. If you use the channel buttons on your remote control, be sure to use the main set of buttons ().

LCD projection TV front panel



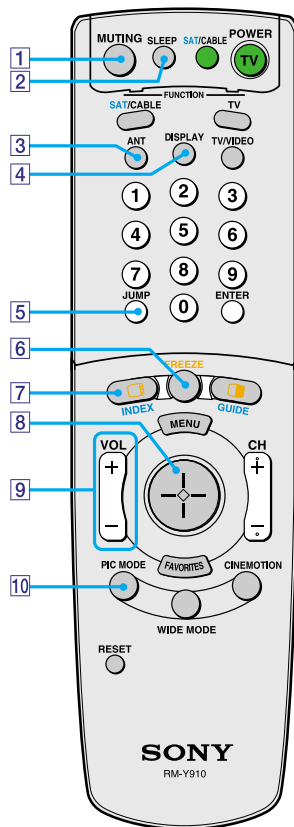
 You can run Auto Program by selecting it in the Channel menu, as described on page 63.

Using the Features


Using the Remote Control

The following table describes the buttons on the remote control that are for more advanced functions.

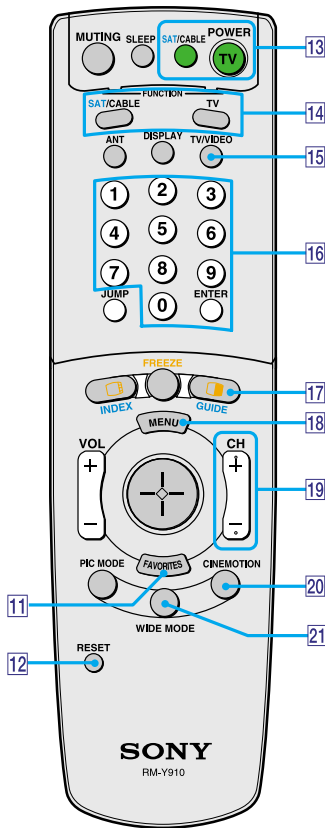
Button Descriptions





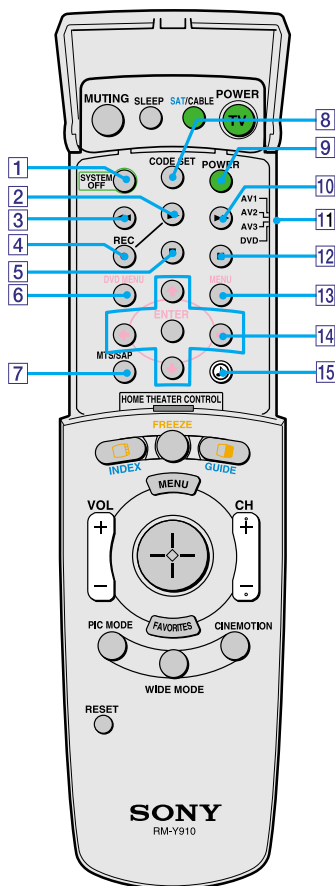
Outside Panel

Button	Description
1 MUTE	Press to mute the sound. Press again or press VOL + to restore the sound.
2 SLEEP	Press repeatedly until the LCD projection TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the LCD projection TV to remain on before shutting off automatically. To cancel Sleep timer, press SLEEP repeatedly until SLEEP OFF appears. Pressing down POWER also cancels the Sleep timer and turns off the power. While the Sleep feature is set, press once to view the remaining time.
3 ANT	Changes between the VHF/UHF input and the AUX input.
4 DISPLAY	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 66 for details on setting the time.
5 JUMP	Press to jump back and forth between two channels. The LCD projection TV alternates between the current channel and the last channel that was selected.
6 FREEZE	Freezes the window picture. Press again to restore the picture.
7 INDEX	Press to enter the Scrolling Channel Index mode. You can view and select from all receivable channels scrolling on the screen without leaving the current one.
8 	The joystick allows for movement of the on-screen cursor. Pressing down on the center of the joystick selects the item.
9 VOL +/-	Adjusts the volume.
10 PIC MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Movie and Mild. Also available in the Video menu. For details, see "Selecting Video Options" on page 58.

(Continued)



Button	Description
11 FAVORITES	Displays the Favorite Channels list. For details, see “Using Favorite Channels” on page 49.
12 RESET	Press when in a menu to reset the settings to the factory defaults.
13 POWER buttons (GREEN)	Turn on and off the LCD projection TV and other audio/video equipment you have programmed into the remote control. For instructions, see “Programming the Remote Control” on page 77.
14 FUNCTION buttons	Select the equipment (TV, SAT/CABLE) that you want to operate. The indicator lights up momentarily when pushed to show which device the remote control is operating.
15 TV/VIDEO	Cycles through the video equipment connected to your LCD projection TV’s video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.
16 0 – 9 and ENTER	Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER to select immediately.
17 	Turns on/off Twin View. For details, see “Using Twin View™” on page 50.
GUIDE	Displays the program guide of your satellite.
18 MENU	Press to display the LCD projection TV on-screen menu. Press again to exit from the menu.
19 CH +/-	Scan through channels.  To scan rapidly through the channels, press and hold down CH+ or CH-.
20 CINEMOTION	Press to turn on and off the CineMotion mode. For details, see “Using the Video Menu” on page 58.
21 WIDE MODE	Press to step through the wide screen modes: Wide Zoom, Normal, Full and Zoom. For details, see “Using Wide Screen Mode” on page 56.



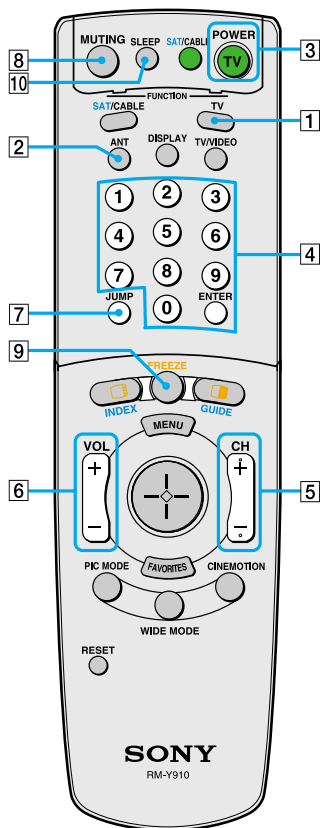
Inside Panel

Button	Description
1 SYSTEM OFF	Press to turn off the LCD projection TV and all equipment connected with S-Link.
2	Play
3	Rewind
4 REC	Record
5	Stop
6 DVD MENU	Displays the DVD menu.
7 MTS/SAP	Press to scroll through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP, and Mono.
8 CODE SET	Used for programming the remote control to operate non-Sony video equipment. For details, see "Programming the Remote Control" on page 77.
9 POWER	Press to turn on the DVD/VCR player you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 77.
10	Fast-forward
11	Use to switch control for connected video equipment. You can program one video source for each switch position. For details, see "Programming the Remote Control" on page 77.
12	Pause (Press again to resume normal playback)
13 MENU	Displays the Video equipment menu.
14	Use to operate the DVD menu.
15	Press to select an audio option: Steady Sound ON or OFF.

Watching the TV

Many TV features can be accessed directly through the remote control. The following will explain the function of some of the buttons found on your remote control.

Buttons for LCD Projection TV Operations



1 TV (FUNCTION)

Activates the remote control for use with the LCD projection TV.

2 ANT— (AUX input)

Press to change between the VHF/UHF input and the AUX input.

3 TV (POWER)

Turns the LCD projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO or CH +/– until a channel number appears.

4 0-9 and ENTER

Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.

5 CH +/-

Press to scan through the channels (+ up or – down).

6 VOL +/-

Press to adjust the volume (+ up or – down).

7 JUMP

Press to alternate or jump back and forth between two channels. The LCD projection TV will jump between the current channel and the last channel selected.

8 MUTING

Press to mute the sound. “MUTING” will appear on the screen and will dim three seconds later. To restore the sound, press again or press VOL +.

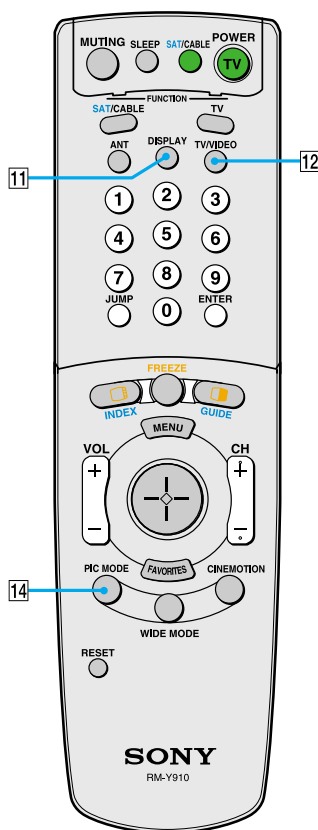
9 FREEZE — (yellow labeled button)

This is useful when you need to copy down information that appears on the LCD projection TV’s screen (see “Using the Freeze Function” on page 53).

10 SLEEP

Press repeatedly until the LCD projection TV displays the approximate time in minutes (15, 30, 45, 60, or 90) that you want the LCD projection TV to remain on before shutting off automatically.

Cancel by pressing SLEEP until “SLEEP OFF” appears.

**11 DISPLAY**

Press to display the channel number, current time and channel label (if set).

To turn the display off, press DISPLAY again.

12 TV/VIDEO

Press repeatedly to scroll through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.

If you select Skip as a Video Label in the Setup menu, your LCD projection TV will skip the video input you selected (see “Video Label” on page 68).

13 MTS/SAP

Press to scroll through the Multi-channel TV Sound (MTS) options (see “MTS” on page 61).

14 PIC MODE

Press PIC MODE repeatedly to directly choose one of four different video modes that best suits the program you are watching.

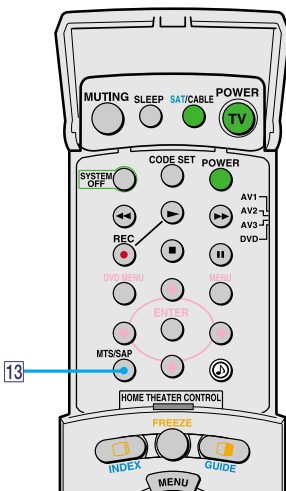
Vivid: Select for enhanced picture contrast and sharpness.

Standard: Select to display a standard picture for normal viewing environments.

Movie: Select to smooth the outline of digital image.

Mild: Select to display a picture with minimum enhancements.

When you select each mode, you can also adjust the picture quality (such as Brightness, Color, etc.) to suit your taste. For details, see “Mode” on page 58.



Watching the Digital TV

When you have connected the DTV receiver, you can enjoy digital TV programs. This LCD projection TV is capable of receiving the 1080i, 720p*, 480p and 480i digital TV formats.

- * This LCD projection TV is not capable of displaying a native 720p format signal. Therefore, when a native 720p format signal is received, it is converted into a 480p format signal.


To view a digital TV program

- 1** Connect the DTV receiver to HD/DVD IN 5 or 6 on the LCD projection TV (for details, see page 38).
- 2** Press TV/VIDEO to select HD/DVD IN 5 or 6.
- 3** Select a digital channel on the DTV receiver. For details, see the Operating Manual of the DTV receiver.
- 4** Adjust the volume of the LCD projection TV as necessary.

Using Favorite Channels

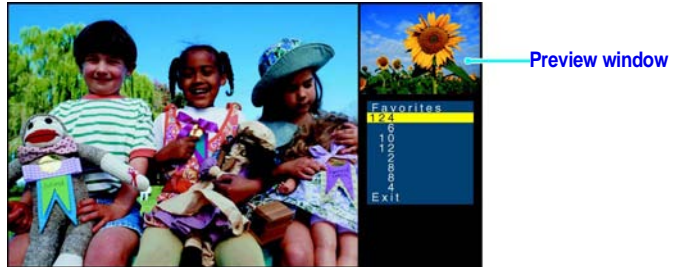
The Favorite Channel feature lets you select programs from a list of favorite channels that you preset.


To display a list of your favorite channels:

 Your Favorite Channel options can be set automatically or manually. The factory setting for Favorite Channel is Auto. When Favorite Channel is set to Auto, the last eight channels selected with 0-9 buttons will be set as Favorite Channel options. If you want to input your own selections as Favorite Channel settings, see "Favorite Channel" on page 62.

- 1 Press FAVORITES.

The Favorite Channel options appear.




- 2 Move the joystick up or down to highlight the channel you want to watch. The program of that channel appears in the preview window. Press  to select.

Using Twin View™

Twin View enables you to watch two programs at the same time. You can also change the size of both the left and right pictures.



Activating Twin Pictures

To display twin pictures

- 1 Make sure your LCD projection TV is tuned to a working channel.
- 2 Press .



To cancel twin pictures

- ☐ Press  again (or press .

Activating the Picture

Although two pictures appear on the screen at the same time, only one picture is active. Change the picture size by using the joystick. For an active picture, you can:

- ☐ Change channels.
- ☐ Adjust the volume.
- ☐ Switch the input sources from VHF/UHF to cable by pressing ANT or TV/VIDEO to switch the video input.

To activate the right picture

- ☐ Move the joystick to the right.



To activate the left picture

- ☐ Move the joystick to the left.



Hookups that affect your ability to use Twin View:

- If you are viewing all channels through the cable box, the Twin View feature will not work. The cable box only unscrambles one signal at a time, so the right picture will be the same as the left picture.
- You can watch a scrambled cable channel and another video source. Be sure your DVD player, VCR or satellite receiver are connected to one of the VIDEO IN 1-6 and AUX inputs on the rear of the LCD projection TV. Pictures from equipment connected to HD/DVD IN 5 and 6, and AUX will only appear in the left picture, not in the right.



The active picture is highlighted in cyan.

Changing the Picture Size

The zoom feature lets you change the size of the left and right pictures.

To enlarge the left picture (reduce the right)

- 1 Move the joystick left to activate the left picture (if not already activated).
- 2 Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.



To enlarge the right picture (reduce the left)

- 1 Move the joystick right to activate the right picture (if not already activated).
- 2 Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.



When you adjust the twin screen sizes, the LCD projection TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using the Freeze Function


The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

To use the Freeze function

- 1 When the program information you want to capture is displayed, press FREEZE.
- 2 The LCD projection TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



- 3 To cancel and return to normal viewing, press FREEZE.

 Freeze feature is not available if you are already in Favorite Channel (see page 49), Twin View™ (see page 50), or Channel Index (see page 54) mode.

Using Scrolling Channel Index

Scrolling Channel Index allows you to view and select from all receivable channels scrolling on the screen without leaving the current channel.

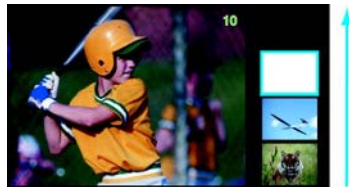



Scrolling Channel Index will not function when Parental Lock is activated.

To use the Scrolling Channel Index function

- 1 Press .

The current channel will be reduced in size and displayed on the left in normal motion picture format. The first channel is briefly displayed on the bottom-right side of the screen, then frozen. It scrolls up and the next channel appears on the bottom-right, and the process is repeated with the other channels.




- 2 Move the joystick up and down so that the channel you wish to view is displayed in the cyan frame, and press .

To return to scrolling, move the joystick up and down again.




To change the direction of scrolling, move the joystick up or down once.

To increase scrolling speed, hold the joystick up or down.


- 3 To enlarge the selected channel into the left frame, press  again. The selected channel will be displayed in normal motion picture, and the sound also switches to this channel.



- 4 Press . The selected channel will be enlarged for normal viewing.



To cancel Scrolling Channel Index

Press  again to resume normal viewing.

Using Wide Screen Mode

Wide Screen Mode lets you watch 4:3 normal broadcasts in several Wide Screen Modes (16:9 aspect ratio).

- Press **WIDE MODE** repeatedly to toggle through the following Screen Mode settings.



You can also access the Screen Mode settings in the Wide menu. For details, see page 64.



Wide Zoom



Normal



Full



Zoom

Wide Zoom enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.

Normal returns the 4:3 picture to its original size.

Full Mode stretches the 4:3 picture horizontally only, to fill the 16:9 screen.

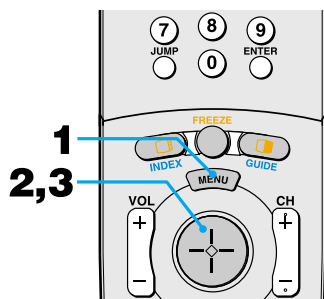
Zoom Mode enlarges the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the 16:9 screen. Useful for watching Letterbox movies.



When you change channels or inputs, the Screen Mode settings revert to Wide Zoom (or the 4:3 Default setting in the Wide menu). To retain the current Screen Mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 65.

Using the Menus

Overview



Opening and choosing a menu

- 1 Press MENU to display the menu screen.
- 2 Move the joystick to the desired menu icon and press to select it.
- 3 Use the joystick to scroll through the features.
- 4 See the specific menu page for instructions on moving through the menu.

To end a menu session

- ❑ Press MENU again.

To end one menu session and move to another

- ❑ Press the joystick to return to the menu icons. Move the joystick or to choose the next menu icon and press to select it.





The menu gives you access to the following features:

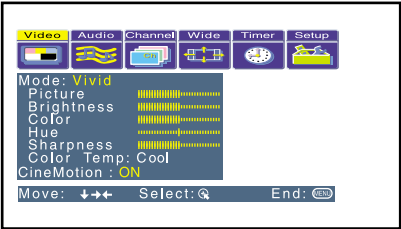
<i>Menu Icon</i>	<i>Description</i>	<i>Page</i>
	Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing.	58
	Offers enhanced audio options such as listening to second audio programming (SAP), or customizing the Effect of the sound on your LCD projection TV.	60
	Allows you to set up a Favorite Channel list, run the Auto Program function, and more.	62
	Allows you to set the wide screen mode, adjust the vertical center in wide mode, and set the 4:3 Default mode.	64
	Lets you set the clock on your LCD projection TV and allows you to program your LCD projection TV for scheduled viewing using the Timers.	66
	Provides several options for setting up your channels, labeling your Video inputs, and selecting the language of the on-screen menus.	67



Using the Video Menu

To select the Video Menu

- 1 Press MENU.
- 2 Move the joystick to the Video icon  and press .
- 3 Use the joystick to scroll through the features.
- 4 Press  to select a feature. That feature's adjustment appears.
- 5 Use the joystick to make the desired adjustments.
- 6 Press  to select/set.
- 7 Press MENU to exit the menu screen.






To restore the factory default settings for Picture, Brightness, Color, Hue, Sharpness and Color Temp

- ❑ Press RESET on the remote control when in the Video menu.

Selecting Video Options

The Video menu includes the following options.





Option	Description	
Mode <i>Customized picture viewing</i>	Vivid	Select for enhanced picture contrast and sharpness.
	Standard	Recommended for Normal viewing conditions.
	Movie	Select for soft, film like, picture.
	Mild	Select to smooth the outline of digital image.
	 You can alter the Video menu settings (Picture, Brightness, Color, etc.) for each Mode.	
	 To quickly and easily change from one Video Mode to another, use PIC MODE on the remote control.	
Picture	Adjust to increase picture contrast and deepen the color or decrease picture contrast and soften the color.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increase or decrease the green tones.	
Sharpness	Adjust to sharpen or soften the picture.	

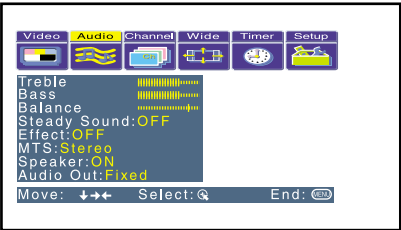
Option	Description	
Color Temp <i>White intensity adjustment</i>	Choose from three color temperatures:	
	Cool	Select to give the white colors a blue tint.
	Neutral	Select to give the white colors a neutral tint.
	Warm	Select to give the white colors a red tint.
CineMotion	Obtains a smooth picture movement that approaches the original film-like quality when reproducing movies or other video sources on 24 frame per second films.	
	ON	The LCD projection TV automatically detects the signal type of a film and processes it appropriately.
	OFF	Select to turn off the CineMotion mode.
	 When the Video Mode is set to Mild (page 58), you cannot set CineMotion to ON.	



Using the Audio Menu

To select the Audio Menu

- 1 Press MENU.
- 2 Move the joystick to the Audio icon  and press .
- 3 Use the joystick to scroll through the options.
- 4 Press  to select an option. That option's settings appear.
- 5 Use the joystick to scroll through the settings.
- 6 Press  to select the desired setting.
- 7 Press MENU to exit the menu screen.





To restore the factory default settings for Treble, Bass and Balance

- ❑ Press RESET on the remote control when in the Audio menu.

Selecting Audio Options

The Audio menu includes the following options:





Option	Description	
Treble	Adjust to increase or decrease higher-pitched sounds.	
Bass	Adjust to increase or decrease lower-pitched sounds.	
Balance	Adjust to emphasize left or right speaker balance.	
Steady Sound	ON	Select to stabilize the volume.
	OFF	Select to turn off Steady Sound.
Effect	 Virtual	Select for surround sound (for stereo programs only).
	 A virtual surround system attempts to create the same surround effect produced by a multichannel system using only the left and right speakers. Most effective for programs encoded in Dolby Surround.	
	Simulated	Adds a surround-like effect to mono programs.
	OFF	Normal stereo or mono reception.

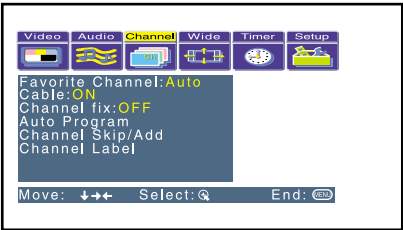
Option	Description	
MTS <i>Enjoy stereo, bilingual and mono programs</i>	Stereo	Select for stereo reception when viewing a program broadcast in stereo.
	Auto-SAP	Select to automatically switch the LCD projection TV to second audio programs when a signal is received. (If no SAP signal is present, the LCD projection TV remains in Stereo mode.)
	Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)
Speaker	ON	Select to turn on the LCD projection TV speakers.
	OFF	Select to turn off the LCD projection TV speakers and listen to the LCD projection TV's sound only through your external audio system speakers.
Audio Out <i>Easy control of volume adjustments</i>	Variable	The LCD projection TV's speakers are turned off, but the volume output from your audio system can still be controlled by the LCD projection TV's remote control.
	Fixed	The LCD projection TV's speakers are turned off and the volume, bass and treble output of the LCD projection TV is fixed. Use your audio receiver's volume control to adjust the volume through your audio system.



Using the Channel Menu




To select the Channel Menu



- 1 Press MENU.
- 2 Move the joystick to the Channel icon  and press .
- 3 Use the joystick to scroll through the features.
- 4 Press  to select a feature. That feature's options appear.
- 5 Use the joystick to scroll through the options.
- 6 Press  to select the desired option.
- 7 Press MENU to exit the menu screen.



Selecting Channel Options

The Channel menu includes the following options:





Option	Description	
Favorite Channel	Auto	Select if you want Favorite Channel options to be set automatically to the last eight channels selected with the 0-9 buttons.
	Manual	<p>Select if you want to input your own selections as Favorite Channel options.</p> <ol style="list-style-type: none">1 Press  to select a favorite channel number.2 Use the joystick to scroll through the channels until you find the channel you want to add to your favorites.3 Press  to select it.
Cable	ON	Select if you are receiving cable channels with a CATV cable.
	OFF	Select if you are using an antenna.
 You should run Auto Program after changing the Cable setting.		

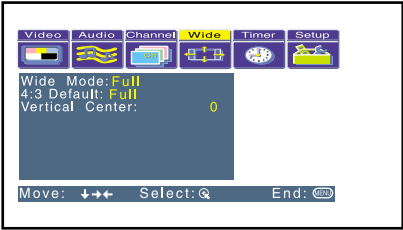
Option	Description
Channel Fix <i>Useful when you have a cable box or satellite receiver connected</i>	<p>2-6 “Fix” your LCD projection TV’s channel setting to 3 or 4 and use the cable box, VCR or satellite receiver to change channels. Select one of these settings if you have connected the device to the VHF/UHF jack.</p> <p>AUX 2-6 Same as 2-6, except you select one of these settings if you have connected the device to the AUX jack (see page 24).</p> <p>VIDEO 1 Use when connecting a cable box. TV output should be connected through the cable box.</p>
Auto Program	Automatically programs the LCD projection TV for all receivable channels.
Channel Skip/Add	<p>Removes and adds viewable channels.</p> <p>1 Use the joystick to scroll through the channels until you find the channel you want to skip/add.</p> <p>2 Press  to select it.</p> <p>3 Press the joystick up or down to toggle between “Add” and “Skip.”</p> <p>4 Press  to select.</p>
Channel Label	Label up to 20 channels with their station call letters.



Using the Wide Menu


To select the Wide menu


- 1 Press MENU.
- 2 Use the joystick to move to the Wide icon  and press .
- 3 Move the joystick to scroll through the features.
- 4 Press  to select a feature. That feature's options appear.
- 5 Use the joystick to scroll through the options.
- 6 Press  to select the desired option.
- 7 Press MENU to exit the menu screen.







Selecting Wide Options

The Wide menu includes the following options:

 To change from one Screen Mode to another, use WIDE MODE on the remote control.


Option	Description	
Wide Mode <i>Select a Screen Mode to use for 4:3 sources.</i>	Wide Zoom	Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible.
	Normal	Select to return the 4:3 picture to normal mode.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
 Wide Mode is unavailable while in Twin View (page 50), Freeze (page 53), or Channel Index (page 54) mode.		

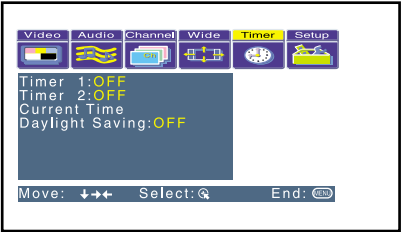
Option	Description	
4:3 Default <i>Select the default Screen Mode to use for 4:3 sources.</i>	Wide Zoom	Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible.
	Normal	Select to return the 4:3 picture to normal mode.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
	Off	Select to continue using the current Screen Mode setting when the channel or input is changed.
	 The 4:3 Default functions only when the LCD projection TV receives 480i signals.	
Vertical Center	 If 4:3 Default is set to anything but Off, the Screen Mode setting changes only for the current channel. When you change channels (or inputs), Screen Mode is automatically replaced with the 4:3 Default setting. To retain the current Screen Mode setting as channels and inputs are changed, set 4:3 Default to Off.	
	Allows you to move the position of the picture up and down in the window. (Available only in Wide Zoom and Zoom modes.) Move the joystick up or down to choose a position and press  .	





Using the Timer Menu

To select the Timer menu

- 1 Press MENU.
- 2 Move the joystick to the Timer icon  and press .





To set the Current Time

- 1 Use the joystick to select “Current Time”, then press .
- 2 If it is currently Daylight Saving Time, be sure to set the mode to “ON” first.
- 3 Use the joystick to enter the correct time, then press .
- 4 Press MENU to exit the menu screen.

To set the Timer

Before setting the timer, be sure to set your LCD projection TV’s clock to the current time and Daylight Saving Mode.

- 1 Move the joystick to “Timer 1” or “Timer 2”, then press .
- 2 Use the joystick to enter your day, time and channel preferences, then press  to select each one.
- 3 Press MENU to exit the menu screen.

To reset the Clock or Timers

- ☐ Press RESET on the remote control after selecting that option in the Timer menu.

Selecting Timer Options





The Timer menu includes the following options:

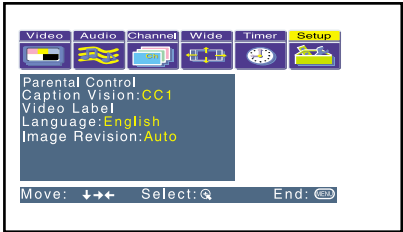
Option	Description	
Timer 1 Timer 2	Program	Select to set the Timer by day, time, duration, and channel.
	OFF	Select to turn off the Timer. (Your previous settings will be saved.)
Current Time	Set the current time.	
Daylight Saving	ON	Select in the Spring to adjust the time during Daylight Saving Time.
	OFF	Select in the Fall to adjust the time at the end of Daylight Saving Time.



Using the Setup Menu

To select the Setup Menu

- 1 Press MENU.
- 2 Move the joystick to the Setup icon  and press .
- 3 Use the joystick to scroll through the features.
- 4 Press  to select a feature. That feature's options appear.
- 5 Use the joystick to scroll through the options.
- 6 Press  to select the desired option.
- 7 Press MENU to exit the menu screen.






Selecting Setup Options

The Setup menu includes the following options:

Option	Description
Parental Control	Allows you to set up the LCD projection TV to block programs according to their content and rating levels. For details about setting, see "Using the Parent Menu" on page 69.
Caption Vision	Allows you to select from three closed caption modes (for programs that are broadcast with closed captioning).
OFF	Turns off Caption Vision.
CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)
TEXT1, TEXT2, TEXT3, TEXT4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.
XDS (Extended Data Service)	Displays a network name, program name, program length, and time of the show if the broadcaster offers this service.


(Continued)

Option	Description				
Video Label	<p>Allows you to label the audio/video components you connected to the LCD projection TV so you can identify them when using TV/VIDEO. When in the Setup menu's Video Label feature, use the joystick to highlight an input to label, then press  to select it. Use the joystick to scroll through the labels. Press  to select the component you connected to each of the input jacks on the back of your LCD projection TV. Select "Skip" if you do not have a component connected to a particular set of input jacks.</p> <table><tr><td>VIDEO 1/2/3/4</td><td>VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip</td></tr><tr><td>VIDEO 5/6</td><td>DVD, DTV, HD, Skip</td></tr></table> <p>If you select "Skip," your LCD projection TV skips this connection when you press TV/VIDEO.</p> <div> When you select "Receiver" on Video Label, your LCD projection TV's input is fixed (for VIDEO 1 only).</div>	VIDEO 1/2/3/4	VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip	VIDEO 5/6	DVD, DTV, HD, Skip
VIDEO 1/2/3/4	VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip				
VIDEO 5/6	DVD, DTV, HD, Skip				
Language	Select to display all on-screen menus in your language of choice: English, Español, Français.				
Image Revision	The factory setting is Auto and your LCD projection TV automatically adjusts the doubled images, ghosts, or merged colors. If the "Auto" setting does not take effect, use the joystick to select the value from 0 to 3 with which the symptoms mentioned above are most improved.				



Using the Parent Menu

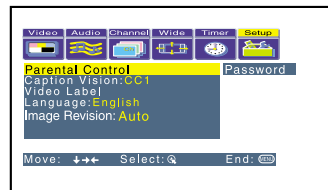
The Parent menu allows you to set up the LCD projection TV to block programs according to their content and rating levels.

These ratings are assigned by a federal rating board. Not all programs are rated. Using the Parental Lock blocks programs with a specific rating, but it does not block an entire channel.

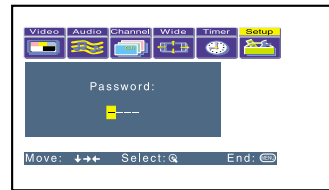
 Scrolling Channel Index will not function when Parental Lock is activated.

To select the rating


- 1 Press MENU.
- 2 Move the joystick to the Setup icon  and press .




- 3 Make sure that “Parental Control” is selected, and press .

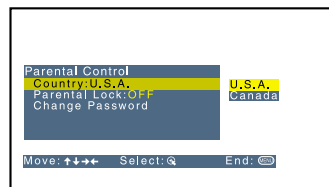


- 4 Use the 0-9 buttons on the remote control to enter your four-digit password.
- 5 Confirm your password by entering it again. Your password is stored and the Parent menu options appear.


 You need the password entered here for any future access into the Parent menu. If you lose your password, see “Lost password” on page 83.

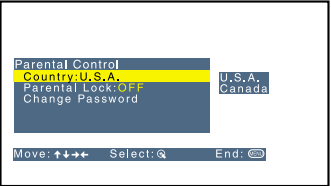
 If you want to change the password, see page 71.

- 6 Make sure that “Country” is selected, and press .

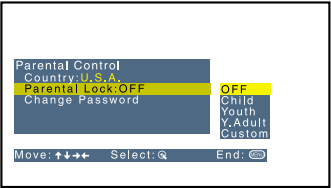



(Continued)

- 7 Move the joystick up or down to select U.S.A. or Canada according to the country you reside in, and press .

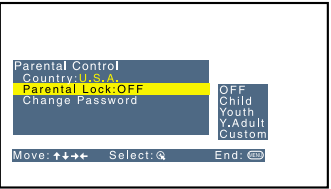


- 8 Move the joystick down to select “Parental Lock”, and press .




- 9 Move the joystick up or down to select a desired rating, and press .


If you select Child, Youth, Young Adult or Custom, the Parental Control is activated automatically.



If you want to select the ratings from Custom, see “Using Custom Rating Options” on page 72.

- 10 Press MENU to exit the menu screen.

 If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more restrictive ratings, select Custom.

 For descriptions of Child, Youth, and Young Adult ratings, see pages 75 and 76.


The Parent menu includes the following options.

Option	Description	
Parental Lock <i>Turn ratings on/off and select a rating system</i>	OFF	Parental lock is off. No programs are blocked from viewing.
	Child	Maximum ratings permitted are: <input type="checkbox"/> US: TV-Y, TV-G, G <input type="checkbox"/> Canada: TV-Y, C, G
	Youth	Maximum ratings permitted are: <input type="checkbox"/> US: TV-PG, PG <input type="checkbox"/> Canada: TV-PG, PG, 8 ans+
	Young Adult	Maximum ratings permitted are: <input type="checkbox"/> US: TV-14, PG-13 <input type="checkbox"/> Canada: TV-14, 14+, 13 ans+
	Custom	Select to set ratings manually. <input type="checkbox"/> US: See page 75 for details. <input type="checkbox"/> Canada: See page 76 for details.
Change Password	For changing your password. (see below)	

To deactivate the Parental Control feature

- ☐ Set Parental Lock to OFF when in the Parent menu.

To change the password

- 1 Select Change Password option when in the Parent menu using the joystick, and press .
- 2 Enter a new four-digit password using the 0-9 buttons.
- 3 Confirm the new password by entering it again.
- 4 Press MENU to exit the menu screen.

Viewing Blocked Programs


You can view a blocked program by entering the password.

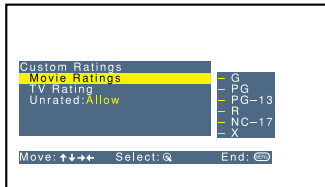
- 1 Press ENTER when tuned to a blocked program.
- 2 Enter your password using the 0-9 buttons.

Parental Control will be canceled temporarily until you turn your LCD projection TV off.

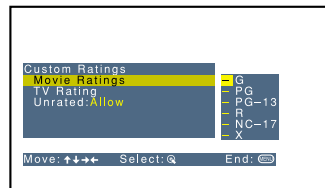
Using Custom Rating Options


If you want to select the ratings to be blocked from Custom, follow the procedure below.


- 1 Perform the steps 1 to 8 in “To select the rating” on page 69 to display the Parental Lock options.
- 2 Move the joystick up or down to select “Custom,” and press .

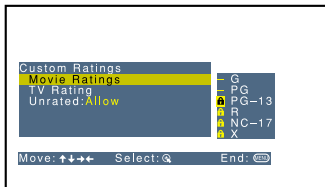




- 3 Make sure that “Movie Ratings” is selected, and press .




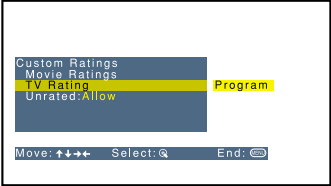
- 4 Move the joystick up or down to select the rating to be blocked, and press .

The  indicator automatically appears beside the selected rating and all “higher” ratings, indicating that the programs that match the ratings will be blocked.

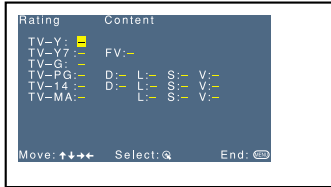



To unblock a rating, select it by moving the joystick up or down, then press . The indicator  changes into “-” and all “lower” ratings are unblocked.


- 5 Move the joystick left, then down, to select “TV Rating” or “Program,” and press .

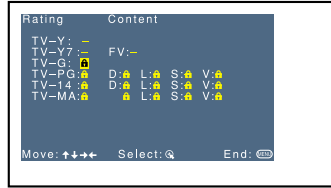




- 6 The “TV Rating” setting menu appears.



- 7 Move the joystick up or down to select the rating to be blocked, and press .


The  indicator automatically appears beside the selected rating and all “higher” ratings, indicating that the programs that match the ratings will be blocked.

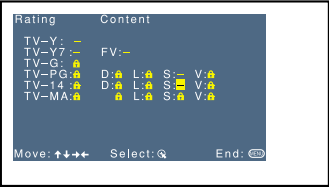


To unblock a rating, select it by moving the joystick up or down, then press . The indicator  changes into “-” and all “lower” ratings are unblocked.



Some TV ratings have additional content ratings called “extenders.” The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (Coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

(Continued)

- 8 Move the joystick left or right to select the extender to be viewed, and press .



“-” appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you press  again,  is displayed to show that the programs that match the extender will be blocked again.


- 9 Repeat step 8 for other extenders.


All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.


- 10 Press MENU to exit the menu screen.

US custom rating options

If you selected U.S.A. as the country of residence on page 70, the Custom Rating Menu includes the following options. (If you selected Canada, see page 76.)

 To ensure maximum blocking capability, the age-based ratings should be blocked.

Option	Description	
Movie Rating	G	All children and General Audience.
	PG	Parental Guidance suggested.
	PG-13	Parental Guidance for children under 13.
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17 and X	No one 17 and under allowed.
TV Rating	Age-Based Options	
<i>Block programs by their rating, content or both</i>	TV-Y	All children.
	TV-Y7	Directed to older children.
	TV-G	General Audience.
	TV-PG	Parental Guidance suggested.
	TV-14	Parents Strongly cautioned.
	TV-MA	Mature Audience only.
	Content-Based Options	
	FV	Fantasy Violence.
	D	Suggestive Dialogue.
	L	Strong Language.
	S	Sexual situations.
	V	Violence.
Unrated	Block	Blocks all programs and movies that are broadcast without a rating.
	Allow	Allows programs and movies that are broadcast without a rating.
		If you select “Block,” please be aware that the following programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

 The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

Canadian custom rating options

If you selected Canada as the country of residence on page 70, the Custom Rating Menu includes the following options. (If you selected U.S.A., see page 75.)

Option	Description
English Rating	C All children.
	C8+ Children 8 years and older.
	G General programming.
	PG Parental Guidance.
	14+ Viewers 14 and older.
	18+ Adult programming.
French Rating	G General programming.
	8 ans+ Not recommended for young children.
	13 ans+ Not recommended for ages under 13.
	16 ans+ Not recommended for ages under 16.
	18 ans+ Programming restricted to adults.
USA Rating	See “TV Rating” on page 75 for details.

Other Information

Programming the Remote Control

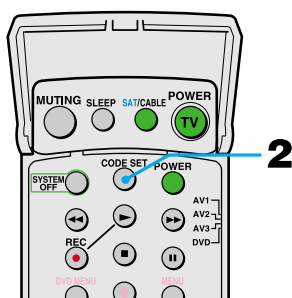
The remote control is preset to operate Sony brand video equipment.

<i>Sony Equipment</i>	<i>Switch Position on Remote Control</i>	<i>Programmable Code Number</i>
Beta, ED Beta VCRs	AV1	303
8 mm VCR	AV2	302
VHS VCR	AV3	301
DVD Player	DVD	751

If you have video equipment other than Sony brand that you want to control with the LCD projection TV's remote control, use the following procedures to program the remote control.



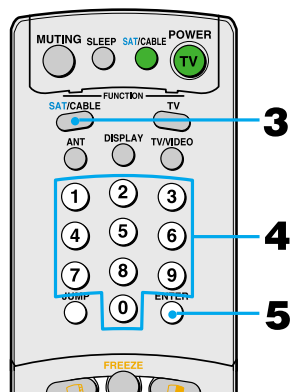
The equipment must have infrared (IR) remote capability in order to be used with the remote control.



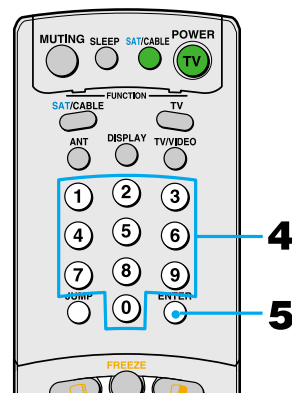
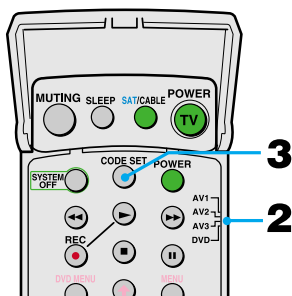
From the "Manufacturer's Codes" listed on page 79, select the three-digit code number for the manufacturer's code for your component. If more than one code number is listed, start with the number listed first. Use the code number to complete the following procedure.

To program a cable box or a satellite receiver

- 1 Open the panel of the remote control.
- 2 Press CODE SET inside the panel.
- 3 Close the panel and press SAT/CABLE (FUNCTION).
- 4 Enter the three-digit manufacturer's code number using the 0-9 buttons.
- 5 Press ENTER.
- 6 To check if the code number works, aim the LCD projection TV's remote control at the component and press the green POWER button that corresponds with that component. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.




(Continued)



To program video equipment

- 1 Open the panel of the remote control.
- 2 Move the slide switch to the desired component type.
- 3 Press CODE SET inside the panel.

 You must perform step 4 within 10 seconds of step 3, or you must start again from step 3.
- 4 Close the panel and enter the three-digit manufacturer's code number using the 0-9 buttons.
- 5 Press ENTER.
- 6 To check if the code number works, aim the LCD projection TV's remote control at the component, open the panel, and press the green POWER button. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

Tips

- ☐ If more than one code number is listed, try entering them one by one until you come to the correct code for your component.
- ☐ If you enter a new code number, the code number you previously entered at that setting is erased.
- ☐ In some rare cases, you may not be able to operate your component with the Sony remote control. In this case, use the component's own remote control unit.

Manufacturer's Codes

VCRs

<i>Manufacturer</i>	<i>Code</i>
Sony	301
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335

<i>Manufacturer</i>	<i>Code</i>
Minolta	305, 304
Mitsubishi/ MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/ PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311

<i>Manufacturer</i>	<i>Code</i>
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

DVD Players

<i>Manufacturer</i>	<i>Code</i>
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Cable Boxes

<i>Manufacturer</i>	<i>Code</i>
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

<i>Manufacturer</i>	<i>Code</i>
Sony	801
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA/ PROSCAN	802, 808
Toshiba	806, 807

Operating Other Components with Your LCD Projection TV Remote Control

Operating a VCR

Open the panel and move the slide switch to the AV input you coded for this device.

<i>To Do This ...</i>	<i>Press</i>
Turn on/off	green POWER button (inside the panel)
Change channels	CH +/-
Record	▶ and REC simultaneously
Play	▶
Stop	■
Fast forward	▶▶
Rewind the tape	◀◀
Pause	(press again to resume normal playback)
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Change input mode	Slide switch

Operating a DVD Player


Open the panel and move the slide switch to the DVD input you coded for this device.

<i>To Do This ...</i>	<i>Press</i>
Turn on/off	green POWER button (inside the panel)
Play	▶
Stop	■
Pause	(press again to resume normal playback)
Step through different tracks of an audio disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Display the menu (Setup)	MENU
Operate the DVD menu	↑, ↓, ←, →, ENTER

Operating a Cable Box

<i>To Do This ...</i>	<i>Press</i>
Turn on/off	SAT/CABLE (POWER)
Select Cable Box	SAT/CABLE (FUNCTION)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP

Operating a Satellite Receiver

<i>To Do This ...</i>	<i>Press</i>
Turn on/off	SAT/CABLE (POWER)
Select Satellite Receiver	SAT/CABLE (FUNCTION)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display DBS guide	GUIDE
Display DBS menu	MENU
Move highlight (cursor)	Joystick or arrows
Select item	

Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

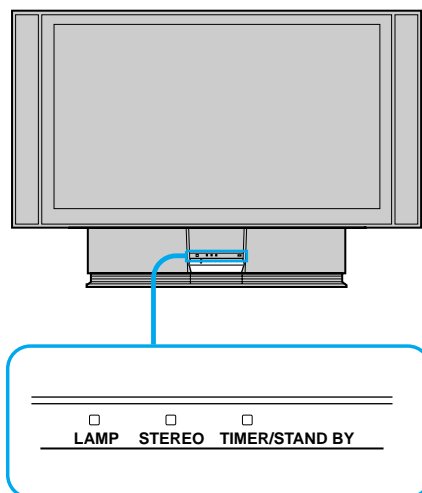
Problem	Possible Remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure the LCD projection TV's power cord is connected securely to the wall outlet. <input type="checkbox"/> Push the power button on the front of the LCD projection TV. <input type="checkbox"/> Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6. <input type="checkbox"/> Try another channel. It could be station trouble. <input type="checkbox"/> The Parental Control feature is activated (see "Using the Parent Menu" on page 69). <input type="checkbox"/> If your LCD projection TV does not turn on, and a red light keeps flashing, your LCD projection TV may need service. Call your local Sony Service Center.
Remote control does not operate	<ul style="list-style-type: none"> <input type="checkbox"/> Batteries could be weak. Replace the batteries. <input type="checkbox"/> Press TV (FUNCTION) when operating your LCD projection TV. <input type="checkbox"/> Make sure the LCD projection TV's power cord is connected securely to the wall outlet. <input type="checkbox"/> Locate the LCD projection TV at least 3-4 feet away from fluorescent lights. <input type="checkbox"/> Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the Picture setting in the Video menu (see page 58). <input type="checkbox"/> Adjust the Brightness setting in the Video menu (see page 58). <input type="checkbox"/> Check antenna/cable connections. It is strongly recommended to connect the antenna using a 75-ohm coaxial cable to get optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it away as far as possible from the LCD projection TV. Do not use an indoor antenna because it is especially susceptible to radio noise (see page 25).
Good picture, no sound	<ul style="list-style-type: none"> <input type="checkbox"/> Press MUTING so that "MUTING" disappears from the screen (see page 43). <input type="checkbox"/> Make sure Speaker is set to ON in the Audio menu (see page 61). <input type="checkbox"/> Check the MTS setting in the Audio menu (see "MTS" on page 61).
Cannot receive digital channels (when a DTV receiver is connected)	<ul style="list-style-type: none"> <input type="checkbox"/> Check the connections between the DTV receiver and the LCD projection TV (see page 38). <input type="checkbox"/> Check your local listings to find out if you can receive digital broadcasts in your area.
Cannot receive upper channels (UHF) when using an antenna	<ul style="list-style-type: none"> <input type="checkbox"/> Change Cable to OFF (see page 62). <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 63).
No color	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the Color settings in the Video menu (see page 58).
Only snow and noise appear on the screen	<ul style="list-style-type: none"> <input type="checkbox"/> Check the Cable setting in the Channel menu (see "Cable" on page 62). <input type="checkbox"/> Check the antenna/cable connections. <input type="checkbox"/> Make sure the channel is broadcasting programs. <input type="checkbox"/> Press ANT to change the input mode (see page 46).

Problem	Possible Remedies
Dotted lines or stripes	<ul style="list-style-type: none"> <input type="checkbox"/> Adjust the antenna. <input type="checkbox"/> Move the LCD projection TV away from noise sources such as cars, neon signs, or hair-dryers.
LCD projection TV is fixed to one channel	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 63). <input type="checkbox"/> Check your Channel Fix settings (see page 63).
Double images, ghosts, or merged colors	<ul style="list-style-type: none"> <input type="checkbox"/> Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings). <input type="checkbox"/> Set the Image Revision to an appropriate value. The default setting is Auto. If ghosts, doubled images, or merged colors appear with Auto, select the best value from 0 to 3 (see page 68).
Cannot operate menu	<ul style="list-style-type: none"> <input type="checkbox"/> If the item you want to choose appears in gray, you cannot select it. <input type="checkbox"/> Turn the LCD projection TV's power off and on again.
Cannot receive any channels when using cable TV	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory (see page 63). <input type="checkbox"/> Check your cable settings. <input type="checkbox"/> Make sure Cable is set to ON in the Channel menu (see page 62).
Cannot gain enough volume when using a cable box	<ul style="list-style-type: none"> <input type="checkbox"/> Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the LCD projection TV's volume.
Channel Index does not display all available channels	<ul style="list-style-type: none"> <input type="checkbox"/> Make sure Cable is set to ON in the Channel menu (see "Cable" on page 62). <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 63).
Cannot receive channels Unable to select a channel	<ul style="list-style-type: none"> <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 63).
Lost password	<ul style="list-style-type: none"> <input type="checkbox"/> In the password screen (see page 69), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.
Cannot change channels with the remote control	<ul style="list-style-type: none"> <input type="checkbox"/> Be sure you have not inadvertently switched your LCD projection TV from channel 3 or 4 setting if you are using another device to change channels. <input type="checkbox"/> If you are using another device to control channels, be sure the "function" button for that device has been pressed, or the slide switch is set correctly. For example, if you are using your cable to control channels, be sure to press SAT/CABLE.
Cannot cycle through the other video equipment connected to the LCD projection TV	<ul style="list-style-type: none"> <input type="checkbox"/> Be sure the Video Label feature has not been set to Skip (see page 68).
There is a black box on the screen	<ul style="list-style-type: none"> <input type="checkbox"/> You have selected a text option in the Setup menu and no text is available. (see page 67 to reset Setup selections) To turn this feature off, select OFF in the Caption Vision option. If you were trying to get closed captioning, select CC1 instead of Text 1-4.

(Continued)

Problem	Possible Remedies
There is no twin picture or it is just static	<ul style="list-style-type: none"> <input type="checkbox"/> Be sure your twin picture is set to a video source/channel that has a program airing. <input type="checkbox"/> You may be tuned to a video input with nothing connected to it. Try cycling through your video inputs using TV/VIDEO. <input type="checkbox"/> Twin View is not set to receive a signal from the AUX input. If you have connected a VCR, DVD player or satellite receiver to the AUX input on the LCD projection TV, it will not show in the second picture.
You get the same program in the window picture as in the main picture	<ul style="list-style-type: none"> <input type="checkbox"/> Both may be set to the same channel. Try changing channels in either the main picture or the window picture. <input type="checkbox"/> You may be running all your channels through a cable box. The cable box will only unscramble one signal at a time, so you cannot use the Twin View feature. If possible, run a direct cable to your LCD projection TV's VHF/UHF input (this will only work if your cable system provides an unscrambled signal.)
You cannot get anything but TV channels in your second picture	<ul style="list-style-type: none"> <input type="checkbox"/> Be sure the video label has not been set to skip your video inputs. See the Setup menu on page 68.
Favorite Channel does not display your choices	<ul style="list-style-type: none"> <input type="checkbox"/> Verify that Favorite Channel is set to Manual in the Channel menu (see "Favorite Channel" on page 62).
Some video sources do not appear when you press TV/VIDEO	<ul style="list-style-type: none"> <input type="checkbox"/> Ensure that Video Label is not set to "Skip" (see "Video Label" on page 68).

What Flashing of the Indicators on the Front of the Monitor Means



The TIMER/STAND BY (red) and/or LAMP (red) indicators indicate the conditions of the LCD projection TV and warnings by lighting or flashing, as follows.

The TIMER/STAND BY indicator flashes.

- ❑ The lamp for the light source is ready to turn on.

The TIMER/STAND BY indicator flashes three times.

- ❑ The lamp cover is not attached securely. When you correct, the TIMER/STAND BY indicator goes out and the LCD projection TV enters the standby mode (see page 13).

The LAMP indicator flashes.

- ❑ The lamp for the light source burns out.
Replace it with new one (see page 13).

If the LCD projection TV is not recovered after correcting the problems, contact with qualified Sony personnel.

Specifications

Projection System	3 LCD Panels, 1 lens projection system	
LCD Panel	1.35 inch TFT LCD panel Approx. 3.15 million dots (1,049,088 pixels)	
Projection Lens	High Performance, large diameter hybrid lens F2.4	
Antenna	75 ohm external terminal for VHF/UHF	
Lamp	UHP lamp, 100W XL-2000U	
Television System	NTSC, American TV Standard	
Screen Size (measured diagonally)	60 inches	
Channel Coverage		
VHF	2-13	
UHF	14-69	
CATV	1-125	
Power Requirements	120V, 60 Hz	
Number of Inputs/Outputs		
Video (IN)	4	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	3	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	6	500 mVrms (100% modulation) Impedance: 47 kilohms
AUDIO (VAR/FIX)	1	500 mVrms at the maximum volume setting (Variable) 500 mVrms (Fixed) Impedance (output): 2 kilohms
TV Out	1	Video: 1 Vp-p 75 ohms unbalanced, Sync negative Audio: 500 mVrms (100% modulation) Impedance (output): 1 kilohms
CONTROL S (IN/OUT)	1	minijacks
Component Video Input	2 (Y, P _B , P _R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative P _B : 0.7 Vp-p, 75 ohms P _R : 0.7 Vp-p, 75 ohms
RF Inputs	2	
Converter	1	
Speaker Output	15 W × 2	
Dimensions (W × H × D)	1,618 × 1,103 × 542 mm (63 ³ / ₄ × 43 ¹ / ₂ × 21 ³ / ₈ inches)	
Mass	63 kg (138 lb 14 oz)	
Power Consumption		
In Use	220 W	
In Standby	Under 1 W	

Supplied Accessories	
Remote Control	RM-Y910
AA Batteries	2 supplied for remote control
Cleaning Cloth	1
Optional Accessories	
TV Stand	SU-60DX
Lamp	XL-2000U
AV Cable	VMC-810/820/830 HG
Audio Cable	RKC-515HG
Control S Cable	RK-G69HG
Component Video Cable	VMC-10/30 HG
AV Receiver	STR-V555ES or equivalent

Design and specifications are subject to change without notice.

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If, after reading this instruction manual, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).

Customers in the continental United States

contact the Direct Response Center at:

1-800-222-SONY (7669)

Customers in Canada contact the

Customer Relations Center at:

(416) 499-SONY (7669)